

EQUIPE 2AT

Nom de de l'équipe : Acoustique, Aérodynamique et Turbulence

Acronyme : 2AT

Responsables d'équipe pour le contrat en cours : Jean-Christophe Valière et Eric Goncalves

Responsable d'équipe pour le contrat à venir : Peter Jordan et Marcello Meldi

I- PRODUCTION DE CONNAISSANCES ET ACTIVITÉS CONCOURANT AU RAYONNEMENT ET À L'ATTRACTIVITÉ SCIENTIFIQUE DE L'UNITÉ ET DE CHAQUE ÉQUIPE / THÈME

1- Journaux / Revues

Articles scientifiques (140).

Les 20% les plus significatifs

2015

- ACL.B02.1. RODRIGUEZ D., CAVALIERI, A.V.G., COLONIUS, T., **JORDAN, P.**, A study of linear wavepacket models for subsonic turbulent jets using local eigenmode decomposition of PIV data. EUROPEAN JNL. MECHANICS-B/FLUIDS, vol. 49
- ACL.B02.2. DAIRAY T., **FORTUNE V.**, **LAMBALLAIS E.**, **BRIZZI L. E.**, Direct numerical simulation of a turbulent jet impinging on a heated wall , JOURNAL OF FLUID MECHANICS , vol. 764, pp. 362-394, DOI : 10.1017/jfm.2014.715, 201
- ACL.B02.3. **MARGNAT F.**, Hybrid prediction of the aerodynamic noise radiated by a rectangular cylinder at incidence, COMPUTERS & FLUIDS , vol. 109, pp. 13-26, DOI : <http://dx.doi.org/10.1016/j.compfluid.2014.12.006>,

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- ACL.B02.4. KOENIG M., SASAKI K., CAVALIERI A.V.G., **JORDAN P.**, **GERVAIS Y.**, Jet-noise control by fluidic injection from a rotating plug: linear and non-linear sound-source mechanisms. JNL. FLUID MECHANICS, vol. 788.
- ACL.B02.5. BARROS D., **BOREE J.**, **NOACK B. R.**, **SPOHN A.**, RUIZ T., Bluff body drag manipulation using pulsed jets and Coanda effect, JOURNAL OF FLUID MECHANICS , vol. 805, pp. 422-459, DOI : 10.1017/jfm.2016.508, 2016
- ACL.B02.6. FISCHER J., **VALEAU V.**, **BRIZZI L. E.**, Beamforming of aeroacoustic sources in the time domain: An investigation of the intermittency of the noise radiated by a forward-facing step, JOURNAL OF SOUND AND VIBRATION , vol. 383, pp. 464-485, DOI : 10.1016/j.jsv.2016.07.032, 2016
- ACL.B02.7. ROSSITTO G., **SICOT C.**, FERRAND V., **BOREE J.**, HARAMBAT F., Influence of afterbody rounding on the pressure distribution over a fastback vehicle, EXPERIMENTS IN FLUIDS , vol. 57, pp. 1-12, DOI : 10.1007/s00348-016-2120-1, 2016

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- ACL.B02.8. TOWNE A., CAVALIERI A.V.G. **JORDAN P.**, COLONIUS T., SCHMIDT O., JAUNET V., BRES G., Acoustic resonance in the potential core of subsonic jets. JNL. FLUID MECH. Vol 825
- ACL.B02.9. CONSTANT E., FAVIER J., **MELDI M.**, MELIGA P., SERRE E., An Immersed Boundary Method in OpenFOAM : verification and validation, COMPUTERS & FLUIDS , vol. 157, pp. 55-72, DOI : 10.1016/j.compfluid.2017.08.001, 2017
- ACL.B02.10. **FOUCAULT E.**, **HUBERSON S.**, **BRAUD P.**, COISNE D., On the pulsatile flow through a coronary bifurcation with stent, EUROPEAN JOURNAL OF MECHANICS - B/FLUIDS, vol. 61, pp. 177-186, DOI : 10.1016/j.euromechflu.2016.11.007, 2017
- ACL.B02.11. **JAUNET V.**, **ARBOS S.**, **LEHNASCH G.**, **GIRARD S.**, Wall Pressure and External Velocity Field Relation in Overexpanded Supersonic Jets, AIAA JOURNAL , vol. 55, pp. 4245-4257, DOI : 10.2514/1.J055874, 2017

- ACL.B02.12. MARTINEZ FERRER P. J., LEHNASCH G., MURA A., Compressibility and heat release effects in high-speed reactive mixing layers I.: Growth rates and turbulence characteristics, COMBUSTION AND FLAME, vol. 180, pp. 284-303, DOI : 10.1016/j.combustflame.2016.09.008, 2017
- ACL.B02.13. MELDI M., POUX A., A reduced order model based on Kalman filtering for sequential data assimilation of turbulent flows, JOURNAL OF COMPUTATIONAL PHYSICS, vol. 347, pp. 207-234, DOI : 10.1016/j.jcp.2017.06.042, 2017

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- ACL.B02.14. EDGINGTON-MITCHELL D., JAUNET V., JORDAN P., TOWNE A., SORIA J., HONNERY D. R., Upstream-travelling acoustic jet modes as a closure mechanism for screech, JOURNAL OF FLUID MECHANICS , vol. 855, pp. r1-r1-12, DOI : 10.1017/jfm.2018.642, 2018
- ACL.B02.15. JORDAN P., JAUNET V., TOWNE A., CAVALIERI A. V. G., COLONIUS T., SCHMIDT O., AGARWAL A., Jet-flap interaction tones, JOURNAL OF FLUID MECHANICS , vol. 853, pp. 333-358, DOI : 10.1017/jfm.2018.566, 2018
- ACL.B02.16. MARGNAT F., IOANNOU V., LAIZET S., A diagnostic tool for jet noise using a line-source approach and implicit large-eddy simulation data, COMPTES RENDUS MECANIQUE, vol. 346, pp. 903-918, DOI : 10.1016/j.crme.2018.07.007, 2018
- ACL.B02.17. MELDI M., DJENIDI L., ANTONIA R., Reynolds number effect on the velocity derivative flatness factor, JOURNAL OF FLUID MECHANICS , vol. 856, pp. 426-442, DOI : 10.107/jfm.2018.717, 2018
- ACL.B02.18. RAMADAN I. A., BAILLIET H., VALIERE J. C., Experimental investigation of the influence of natural convection and end-effects on Rayleigh streaming in a thermoacoustic engine , THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol. 143, pp. 361-372, DOI : 10.1121/1.5021331, 2018
- ACL.B02.19. SANSICA A., ROBINET J.-C., ALIZARD F., GONCALVES E., Three-dimensional instability of a flow past a sphere: Mach evolution of the regular and Hopf bifurcations , JOURNAL OF FLUID MECHANICS , vol. 855, pp. 1088-1115, DOI : 10.1017/jfm.2018.664, 2018
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- ACL.B02.21. BALTEAN-CARLES D., DARU V., WEISMAN C., TABAKOVA S., BAILLIET H., An unexpected balance between outer Rayleigh streaming sources , JOURNAL OF FLUID MECHANICS , vol. 867, pp. 985-1011, DOI : 10.1017/jfm.2019.111, 2019
- ACL.B02.22. CAVALIERI A. V. G., JORDAN P., LESSHAFFT L., Wave-Packet Models for Jet Dynamics and Sound Radiation, APPLIED MECHANICS REVIEWS, vol. 71, pp. ---, DOI : 10.1115/1.4042736, 2019
- ACL.B02.23. FOUCAULT E., SZEGER P., Unsteady flowmeter, FLOW MEASUREMENT AND INSTRUMENTATION, vol. 69, pp. 101607--, DOI : 10.1016/j.flowmeasinst.2019.101607, 2019
- ACL.B02.24. GONCALVES DA SILVA PINTO W. J., MARGNAT F., A shape optimization procedure for cylinders aeolian tone, COMPUTERS & FLUIDS , vol. 182, pp. 37-51, DOI : 10.1016/j.compfluid.2019.02.002 , 2019
- ACL.B02.25. LI R., BOREE J., NOACK B. R., CORDIER L., HARAMBAT F., Drag reduction mechanisms of a car model at moderate yaw by bi-frequency forcing, PHYSICAL REVIEW FLUIDS, vol. 4, pp. 034604 --, DOI : 10.1103/PhysRevFluids.4.034604, 2019
- ACL.B02.26. MARTINI E., CAVALIERI A. V. G., JORDAN P., Acoustic modes in jet and wake stability, JOURNAL OF FLUID MECHANICS , vol. 867, pp. 804-834, DOI : 10.1017/jfm.2019.148, 2019
- ACL.B02.27. NOGUEIRA P. A., CAVALIERI A. V. G., ANDRE G., JORDAN P., JAUNET V., Large-scale streaky structures in turbulent jets , JOURNAL OF FLUID MECHANICS , vol. 873, pp. 211-237, DOI : 10.1017/jfm.2019.365, 2019
- ACL.B02.28. RAKOTOARISOA I., MARX D., PRAX C., VALEAU V., Array processing for the localisation of noise sources in hot flows, MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol. 116, pp. 160-172, DOI : 10.1016/j.ymsp.2018.06.038, 2019
- ACL.B02.29. SEBASTIAN R., MARX D., FORTUNE V., Numerical simulation of a turbulent channel flow with an acoustic liner, JOURNAL OF SOUND AND VIBRATION , vol. 456, pp. 306-330, DOI : 10.1016/j.jsv.2019.05.020, 2019

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- ACL.B02.30. HAFFNER Y., BOREE J., SPOHN A., CASTELAIN T., Mechanics of bluff body drag reduction during transient near wake reversals, JOURNAL OF FLUID MECHANICS, vol. 894, DOI : 10.1017/jfm.2020.275, 2020
- ACL.B02.31. MARTINI E., CAVALIERI A.V.G., JORDAN P., TOWNE A., LESSHAFFT L., Resolvent-based optimal estimation of transitional and turbulent flows. JNL. FLUID MECH., In press
- ACL.B02.32. ZHOU Y., VALEAU V., MARCHAL J., OLLIVIER F., MARCHIANO R., Three-dimensional identification of flow-induced noise sources with a tunnel-shaped array of MEMS microphones, J Sound Vib. Vol. 482, 115459

Les 80% restants

2015

- ACL.B02.33. BARRE S., **BONNET J. P.**, Detailed Experimental study of a highly Compressible Supersonic Turbulent Plane Mixing Layer , comparison with most Recent DNS Results, INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW , vol. 51, pp. 324-334, DOI : 10.1016/j.ijheatfluidflow.2014.10.009, 2015
- ACL.B02.34. BERGER Z. P., SHEA P. R., MATTHEW G. B., **NOACK B. R.**, GOGINEMI S., GLAUSER M. N., Active Flow Control for High Speed Jets with Large Window PIV, FLOW TURBULENCE AND COMBUSTION, vol. 94, pp. 97-123, DOI : 10.1007/s10494-014-9580-2, 2015
- ACL.B02.35. BONNEAU V., POLACSEK C., BARRIER R., LEWY S., ROUX J.-M., **GERVAIS Y.**, Tonal Noise Prediction of a Turbofan with Heterogeneous Stator and Bifurcations, AIAA JOURNAL , vol. 53, pp. 3354-3369, DOI : 10.2514/1.J053970, 2015
- ACL.B02.36. BRUNTON S. L., **NOACK B. R.**, Closed-loop turbulence control: Progress and challenges, APPLIED MECHANICS REVIEWS, vol. 67, pp. 1-48, DOI : 10.1115/1.4031175, 2015
- ACL.B02.37. GAUTIER N., AIDER J. L., DURIEZ T., **NOACK B. R.**, SEGOND M., ABEL M., Closed-loop separation control using machine learning, JOURNAL OF FLUID MECHANICS , vol. 770, pp. 424-441, DOI : <http://dx.doi.org/10.1017/jfm.2015.95>, 2015
- ACL.B02.38. GRASSUCCI D., CAMUSSI R., **JORDAN P.**, GRIZZI S., Using wavelet transforms and linear stochastic estimation to study nearfield pressure and turbulent velocity signatures in free jets, EXPERIMENTS IN FLUIDS , vol. , pp. 1-2, DOI : <http://dx.doi.org/10.2514/6.2010-3954>, 2015
- ACL.B02.39. HOSSEINI Z., MARTINUZZI R. J., **NOACK B. R.**, Sensor-based estimation of the velocity in the wake of a low-aspect-ratio pyramid, EXPERIMENTS IN FLUIDS , vol. 56, pp. 1-16, DOI : 10.1007/s00348-014-1880-8, 2015
- ACL.B02.40. **MARX D.**, Numerical Computation of a lined duct instability using the linearized Euler equations, AIAA JOURNAL , vol. , pp. 2379-2388, DOI : 10.2514/1.J053746, 2015
- ACL.B02.41. OESTH J., KAISER E., KRAJNOVIC S., **NOACK B. R.**, Cluster-based reduced-order modelling of the flow in the wake of a high speed train, JOURNAL OF WIND ENGINEERING AND INDUSTRIAL APPLICATIONS, vol. 145, pp. 327-338, DOI : 10.1016/j.jweia.2015.06.003, 2015
- ACL.B02.42. PAREZANOVIC V., LAURENTIE J. C., DURIEZ T., FOURMENT C., **DELVILLE J.**, **BONNET J. P.**, **CORDIER L.**, **NOACK B. R.**, SEGOND M., ABEL M., SHAQARIN T., BRUNTON S. L., Mixing Layer Manipulation Experiment From Open-Loop Forcing to Closed-Loop Machine Learning Control, FLOW TURBULENCE AND COMBUSTION, vol. 94, pp. 155-173, DOI : 10.1007/s10494-014-9581-1, 2015
- ACL.B02.43. PROTAS B., **NOACK B. R.**, OSTH J., Optimal nonlinear eddy viscosity in Galerkin models of turbulent flows, JOURNAL OF FLUID MECHANICS , vol. 766, pp. 337-367, DOI : <http://dx.doi.org/10.1017/jfm.2015.14>, 2015
- ACL.B02.44. SCHLEGEL M., **NOACK B. R.**, On long-term boundedness of Galerkin models, JOURNAL OF FLUID MECHANICS , vol. 765, pp. 325-352, DOI : DOI : <http://dx.doi.org/10.1017/jfm.2014.736> , 2015
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- ACL.B02.46. **SERRE R.**, ROBINET J.-C., **MARGNAT F.**, The influence of a pressure wavepacket's characteristics on its acoustic radiation, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA , vol. 137, pp. 3178-3189, DOI : 10.1121/1.4921031., 2015
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- ACL.B02.48. **VISENTIN C.**, PRODI N., **VALEAU V.**, PICAUT J., Experimental analysis of the relationship between reverberant acoustic intensity and energy density inside long rooms, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA , vol. 138, pp. 181-192, DOI : <http://dx.doi.org/10.1121/1.4922334>, 2015
- ACL.B02.49. PORTEOUS R., PRIME Z., DOOLAN C. J., MOREAU D. J., **VALEAU V.**, Three-dimensional beamforming of dipolar aeroacoustic sources, JOURNAL OF SOUND AND VIBRATION , vol. 355, pp. 117-134, DOI : <http://dx.doi.org/10.1016/j.jsv.2015.06.030>, 2015

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- ACL.B02.50. **BARROS D.**, **BOREE J.**, **NOACK B. R.**, **SPOHN A.**, Resonances in the forced turbulent wake past a 3D blunt body, PHYSICS OF FLUIDS , vol. 28, pp. 065104--, DOI : dx.doi.org/10.1063/1.4953176, 2016
- ACL.B02.51. **BENARD N.**, PONS-PRATS J., PERIAUX J., BUGEDA G., BRAUD P., **BONNET J. P.**, **MOREAU E.**, Turbulent separated shear flow control by surface plasma actuator: experimental optimization by genetic algorithm approach, EXPERIMENTS IN FLUIDS , vol. 57, pp. 1-17, DOI : 10.1007/s00348-015-2107-3, 2016
- ACL.B02.52. **BUTTAY R.**, **LEHNASCH G.**, **MURA A.**, Analysis of small-scale scalar mixing processes in highly under-expanded jets , SHOCK WAVES , vol. 26, pp. 193-212, DOI : 10.1007/s00193-015-0599-7, 2016

- ACL.B02.53. **DABBOURA E., SADAT H., PRAX C.**, A moving least squares meshless method for solving the generalized Kuramoto-Sivashinsky equation. "Alexandria Engineering Journal, vol. 55, pp. 2783-2787, 2016
- ACL.B02.54. **DAIRAY T., ROUX S., FORTUNE V., BRIZZI L. E.**, On the Capability of PIV-Based Wall Pressure Estimation for an Impinging Jet Flow, FLOW TURBULENCE AND COMBUSTION, vol. 96, pp. 1-26, DOI : 10.1007/s10494-015-9672-7, 2016
- ACL.B02.55. **DEBESSE P., PASTUR L., LUSSEYRAN F., FRAIGNEAU Y., TENAUD C., BONAMY C., CAVALIERI A. V. G., JORDAN P.**, A comparison of data-reduction techniques for the aeroacoustic analysis of flow over a blunt flat plate, THEORETICAL AND COMPUTATIONAL FLUID DYNAMICS , vol. 30, pp. 253-274, DOI : 10.1007/s00162-015-0375-4, 2016
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- ACL.B02.57. **FOY C., PICAUT J., VALEAU V.**, Including scattering within the room acoustics diffusion model: An analytical approach, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA , vol. 140, pp. 2659-2669, DOI : 10.1121/1.4963081, 2016
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- ACL.B02.59. **LE DUFF A., PLANTIER G., VALIERE J. C., GAZENGEL B.**, Acoustic velocity measurement by means of Laser Doppler Velocimetry: Development of an Extended Kalman Filter and validation in free-field measurement, MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol. 70-71, pp. 832-852, DOI : 10.1016/j.ymsp.2015.08.020, 2016
- ACL.B02.60. **LECOQ D., PEZERAT C., CHEVILLOTE F., BESSIS R.**, Measurement of the low-wavenumber component within a turbulent wall pressure by an inverse problem of vibration , THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol. 140, pp. ---, DOI : 10.1121/1.4962986, 2016
- ACL.B02.61. **LI R., BARROS D., BOREE J., CADOT O., NOACK B. R., CORDIER L.**, Feedback control of bimodal wake dynamics, EXPERIMENTS IN FLUIDS , vol. 57, pp. 1-6, DOI : 10.1007/s00348-016-2245-2, 2016
- ACL.B02.62. **MELDI M.**, The signature of initial production mechanisms in isotropic turbulence decay, PHYSICS OF FLUIDS , vol. 28, pp. 035105-035105, DOI : 10.1063/1.4943542, 2016
- ACL.B02.63. **PAPA E., MEDRI V., KPOGBEMABOU D., MORINIERE V., LAUMONIER J., VACCARI A., ROSSIGNOL S.**, Porosity and insulating properties of silica-fume based foams, ENERGY AND BUILDINGS, vol. 131, pp. 223-232, DOI : 10.1016/j.enbuild.2016.09.031, 2016
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- ACL.B02.66. **ZHANG M.**, Weakly nonlinear stability analysis of subcritical electrohydrodynamic flow subject to strong unipolar injection, JOURNAL OF FLUID MECHANICS , vol. 792, pp. 328-363, DOI : 10.1017/jfm.2016.89, 2016
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- ACL.B02.68. **BARROS D., BOREE J., CADOT O., SPOHN A., NOACK B. R.**, Forcing symmetry exchanges and flow reversals in turbulent wakes, JOURNAL OF FLUID MECHANICS , vol. 829, pp. ---, DOI : 10.1017/jfm.2017.590, 2017
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- ACL.B02.71. **CHARRIERE B., GONCALVES E.**, Numerical investigation of periodic cavitation shedding in a Venturi, INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW , vol. 64, pp. 41-54, DOI : 10.1016/j.ijheatfluidflow.2017.01.011, 2017
- ACL.B02.72. **COLOMBET D., GONCALVES E., FORTES R.** On numerical simulation of cavitating flows under thermal regime", INT. JOURNAL HEAT & MASS TRANSFER, vol.105, pp.411-428, 2017. DOI : 10.1016/j.ijheatmasstransfer.2016.09.070

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- ACL.B02.78. **GONCALVES E.**, ZEIDAN D., Numerical study of turbulent cavitating flows in thermal regime, INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol. 27, pp. 1487-1503, DOI : 10.1108/HFF-05-2016-0202, 2017
- ACL.B02.79. **JAUNET V.**, **JORDAN P.**, CAVALIERI A. V. G., Two-point coherence of wave packets in turbulent jets, PHYSICAL REVIEW FLUIDS, vol. 2, pp. 024604--, DOI : 10.1103/PhysRevFluids.2.024604, 2017
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- ACT.B02.27. **VALIERE J. C.**, **BAILLIET H.**, Laser velocimetry for non-linear acoustics : an overview over two decades of research, International Symposium on Non-Linear Acoustics, 2015
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- ACT.B02.30. ROSSITTO G., SICOT C., FERRAND V., BOREE J., HARAMBAT F., Wake structure and drag of vehicles with rounded rear edges. , 50h 3AF International Conference on Applied Aerodynamics, 2015

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- ACT.B02.37. BRES G. A., **JAUNET V.**, LE RALLIC M., **JORDAN P.**, TOWNE A., COLONIUS T., CAVALIERI A. V. G., LELE S., Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound, 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
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- ACT.B02.40. **JAUNET V., JORDAN P.,** CAVALIERI A. V. G., TOWNE A., COLONIUS T., SCHMIDT O., BRES G. A., Tonal dynamics and sound in subsonic turbulent jets, 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
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- ACT.B02.43. **MARGNAT F., GLOERFELT X.,** Analysis of hydrodynamic and acoustic events in a turbulent boundary layer using a direct noise simulation database, 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
- ACT.B02.44. **ROSSITTO G., SICOT C., FERRAND V., BORÉE J., HARAMBAT F.,** Drag and crosswind sensitivity of rounded fastback vehicle, 2nd international conference in numerical and experimental aerodynamics of road vehicles and trains (Aerovehicles 2), Chalmers, Sweden, June 21-23, 2016
- ACT.B02.45. **ROSSITTO G., SICOT C., FERRAND V., BORÉE J., HARAMBAT F.,** Influence of afterbody rounding on the near wake of fastback vehicle. 18th International Symposium on the Application of Laser and Imaging Techniques to Fluid Mechanics, Lisbon, Portugal, July 4-7, 2016
- ACT.B02.46. SCHMIDT O., TOWNE A., COLONIUS T., **JORDAN P., JAUNET V.,** CAVALIERI A. V. G., BRES G. A., Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet, 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
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- ACT.B02.52. NOGUEIRA P., CAVALIERI A.V.G. **JORDAN P.,** A model problem for sound radiation by an installed jet. 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
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- ACT.B02.54. DA SILVA P., **JORDAN P., PIANANIDA S.,** CAVALIERI A.V.G., Effects of coherence on jet-surface interaction noise. 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
- ACT.B02.55. FU Z., AGARWAL A., CAVALIERI A.V.G., **JORDAN P.,** BRES G., On removing the nearfield coherent structures in a jet and its impact on the radiated sound. 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
- ACT.B02.56. CAVALIERI A.V.G., SASAKI K., **JORDAN P.,** SCHMIDT O., COLONIUS T., BRES G., High-frequency wavepackets in turbulent jets. 22nd AIAA/CEAS Aeroacoustics Conference, Aeroacoustics Conferences, 2016
- ACT.B02.57. DARU V., **BAILLIET H.,** BALTEAN-CARLES D., **REYT I.,** WEISMAN C., Transitoire et changement de régime des écoulements redressés de Rayleigh à forts niveaux : Etudes numérique et expérimentale, 13e Congrès Français d'Acoustique joint avec le colloque Vibrations, SHocks and NOise, 2016
- ACT.B02.58. **QIU Z., BAILLIET H., VALIERE J. C.,** Propagation Multimodale pour Différentes Extrémités de Guide Large : Mesure par Antennerie Microphonique de la Réflexion des Modes, 13e Congrès Français d'Acoustique joint avec le colloque Vibrations, SHocks and NOise, 2016
- ACT.B02.59. **VALIERE J. C.,** PALAZZO-BERTHOLON B., FIALA D., ZARA V., L'effet des pots acoustiques du caveau phonocamptique de la Cathédrale de Noyon : analyse modale et performance chantée, 13e Congrès Français d'Acoustique joint avec le colloque Vibrations, SHocks and NOise, 2016
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- ACT.B02.61. **VALIERE J. C.**, MOREAU S., **BAILLIET H.**, Limites de l'estimation de la vitesse acoustique en écoulement turbulent par Vélocimétrie Laser Doppler : Simulations et expérience, 13e Congrès Français d'Acoustique joint avec le colloque Vibrations, SHocks and NOise, 2016
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- ACT.B02.67. **BENARD N.**, SUJAR-GARRIDO P., **BONNET J.P.**, **MOREAU E.**, "Shear layer and shedding modes excitations of a backward-facing step flow by surface plasma discharge" European Drag Reduction and Flow Control Meeting – **EDRFCM 2017** april 3–6, 2017, Roma
- ACT.B02.68. **BONNET J.P.**, ACHER G., AUDIER P., ROBERT A., LEBEDEV A., **BENARD N.**, **MOREAU E.**, Development and characterization of a pulsed jet actuator based on sonic flow controlled by plasma", TSFP10 Chicago, July 2017
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- ACT.B02.70. HUBER J., **JORDAN P.**, ROGER M., **GERVAIS Y.**, LIZARAZU D., WLASSOW F., Exploring flight effects for installed jet noise using a wavepacket sound-source model , 23rd AIAA/CEAS Aeroacoustics Conference , 2017
- ACT.B02.71. **JORDAN P.**, **ZHANG M.**, **LEHNASCH G.**, CAVALIERI A. V. G., Modal and non-modal linear wavepacket dynamics in turbulent jets, 23rd AIAA/CEAS Aeroacoustics Conference , 2017
- ACT.B02.72. KAPLAN O., **JORDAN P.**, CAVALIERI A. V. G., Exploring the link between nozzle dynamics and wavepackets in a Mach 0.9 turbulent jet, 23rd AIAA/CEAS Aeroacoustics Conference , 2017
- ACT.B02.73. LAM A., HODGSON M., **VALEAU V.**, Incorporating image sources in the time-domain beamforming model for the localization of sound sources in reverberant rooms, 174th Meeting of the Acoustical Society of America, 4-8 December, 2017, 2017
- ACT.B02.74. LE RALLIC M., **JORDAN P.**, **GERVAIS Y.**, Understanding jet-noise reduction with wavepackets , 23rd AIAA/CEAS Aeroacoustics Conference , 2017
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- ACT.B02.76. LI R., **NOACK B. R.**, **CORDIER L.**, **BOREE J.**, HARAMBAT F., Machine learning control of the turbulent wake past a 3D bluff body, 52nd 3AF International Conference on Applied Aerodynamics Progress in Flow Control, 2017
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- ACT.B02.78. **MELDI M.**, Augmented Prediction of Turbulent Flows via Sequential Estimators, ERCOFTAC - Direct and Large-Eddy Simulation , 2017
- ACT.B02.79. NAKANO T., **LEHNASCH G.**, **GONCALVES E.**, Numerical study of shock wave- boundary layer interaction in cylinder-flare configuration, 31st International Symposium on Shock Waves , 2017
- ACT.B02.80. RAMADAN I. A., **BAILLIET H.**, **VALIERE J. C.**, Experimental investigation of Acoustic streaming in a simple thermoacoustic engine, 24th International Congress on Sound and Vibration, 2017
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- ACT.B02.84. LEROY A., BRAUD C., **JAUNET V.**, BALERIOLA S., GUILMINEAU E., PIQUET T., LOYER S., DEVINNANT P., AUBRUN S., Plasma and fluidic jet actuators for circulation control around wind turbine airfoils, 52nd 3AF International Conference on Applied Aerodynamics Progress in Flow Control, 2017

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- ACT.B02.86. **GONCALVES DA SILVA PINTO W. J., MARGNAT F., GERVAIS Y.**, Shape optimisation for the noise induced by the flow over compact bluff bodies, International Conference on Computational Fluid Dynamics (ICCFD10), 2018
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- ACT.B02.90. **LI R., BOREE J., NOACK B. R., CORDIER L., HARAMBAT F.**, Drag reduction of a yawed car model by combining fluidic flaps and turbulence control, 19th International Symposium on the Application of Laser and Imaging Techniques to Fluid Mechanics, 2018
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- ACT.B02.93. **SICOT C., PAILLE F., BARROS D., BOREE J.**, Unsteady load measurements: analysis of 2D and 3D cylinder wakes, 7th Conference on Bluff Body Wakes and Vortex Induced Vibrations, (BBVIV), 2018
- ACT.B02.94. **VALEAU V., PICAUT J., FOY C.**, Some contributions of Murray Hodgson to room acoustics modeling, 176th Meeting Acoustical Society of America and 2018 Acoustics Week in Canada Canadian Acoustical Association, Novembre 2018, 2018
- ACT.B02.95. **ZHOU Y., VALEAU V., MARCHAL J., MARCHIANO R., OLLIVIER F.**, Imaging aeroacoustic sources in a wind-tunnel with a massive array of MEMS microphones, 176th Meeting Acoustical Society of America and 2018 Acoustics Week in Canada Canadian Acoustical Association, Novembre 2018, 2018
- ACT.B02.96. **ZUMU DOLI C., VALEAU V., BRIZZI L. E., VALIERE J. C., LAZURE H., VAN HERPE F.**, Transmission des fluctuations de bruit dans un modèle d'habitacle automobile générées par un écoulement instationnaire : étude en soufflerie, 14ème Congrès Français d'Acoustique (CFA 2018), 2018
- ACT.B02.97. **PRAX C., PICAUT J., FORTIN N., VALEAU V., SAKOUT A., FOY C., CHIAPPINI F.**, Un code de calcul de type éléments finis pour l'équation de diffusion de l'énergie acoustique dans les bâtiments sur la plateforme opensource I-Simpa , 14ème Congrès Français d'Acoustique (CFA 2018), 2018
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- ACT.B02.100. **VALIERE J. C., PALAZZO-BERTHOLON B., FIALA D., ZARA V., BRIOIST P.**, Archéoacoustique expérimentale : le choix empirique des pots acoustiques par leur géométrie et leur fréquence de résonance, 14ème Congrès Français d'Acoustique (CFA 2018), 2018

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- ACT.B02.101. **ASSUNCAO T., JAUNET V., GERVAIS Y., GIRARD S.**, Closure mechanism investigation of axisymmetric and helical screech modes in underexpanded round jets, 48th International Congress and Exhibition on Noise Control Engineering, Inter-noise 2019 , 2019
- ACT.B02.102. **CARUSONE A., SICOT C., BONNET J-P., BORÉE J.**, Active control of transient loads on a trailing edge separated NACA0015 airfoil. 54th 3AF International Conference on Applied Aerodynamics 25-27 March, Paris, France, 2019
- ACT.B02.103. **EDGINGTON-MITCHELL D., DUKE D., HARRIS D., WANG T., SCHMIDT O., JAUNET V., JORDAN P., TOWNE A.**, Modulation of downstream-propagating waves in jet screech, 25th AIAA/CEAS Aeroacoustics Conference (Aeroacoustics 2019), 2019

- ACT.B02.104. GONCALVES DA SILVA PINTO W. J., **MARGNAT F.**, **GERVAIS Y.**, Effect of cross-section on flow three-dimensionality for prismatic bodies and the associated noise emission, 25th AIAA/CEAS Aeroacoustics Conference (Aeroacoustics 2019), 2019
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- ACT.B02.106. HAFFNER Y., **BORÉE J.**, **SPOHN A.**, **CASTELAIN T.**, Unsteady coanda forcing for drag reduction of a blunt body. 11th International Symposium on Turbulence and Shear Flow Phenomena (TSFP11) Southampton, UK, July 30 - August 2, 2019
- ACT.B02.107. **JAUNET V.**, **MANCINELLI M.**, **JORDAN P.**, **TOWNE A.**, **EDGINGTON-MITCHELL D.**, **LEHNASCH G.**, **GIRARD S.**, Dynamics of round jet impingement, AIAA Aeroacoustics Conference, 2019
- ACT.B02.108. **KAPLAN O.**, **JORDAN P.**, **CAVALIERI A. V. G.**, **BRES G. A.**, Dynamics of turbulent boundary layers exciting wavepackets in subsonic jets, AIAA Aeroacoustics Conference, 2019
- ACT.B02.109. LAMBERT M. A., **MAURY R.**, **VALIERE J. C.**, **FOUCAULT E.**, **LEHNASCH G.**, Experimental and numerical investigations on the shape and roughness of cylindrical critical flow venturi nozzles(CFVN), 19th International Congress of Metrology, 24-26 sept 2019, 2019
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- ACT.B02.111. **MANCINELLI M.**, **JAUNET V.**, **JORDAN P.**, **TOWNE A.**, **GIRARD S.**, Reflection coefficients and screech-tone prediction in supersonic jets, AIAA Aeroacoustics Conference, 2019
- ACT.B02.112. **MARX D.**, SEBASTIAN R., **FORTUNE V.**, Spatial Numerical Simulation of a Turbulent Plane Channel Flow with an Impedance Wall, 25th AIAA/CEAS Aeroacoustics Conference (Aeroacoustics 2019), 2019
- ACT.B02.113. **MELONI S.**, **DI MARCO A.**, **CAMUSSI R.**, **MANCINELLI M.**, Parametric characterization of wall pressure fluctuations induced by a compressible jet interacting with a flat plate, AIAA Aeroacoustics Conference, 2019
- ACT.B02.114. **NOGUEIRA P. A.**, **CAVALIERI A. V. G.**, **SCHMIDT O. T.**, **JORDAN P.**, **JAUNET V.**, **PICKERING E.**, **RIGAS G.**, **COLONIUS T.**, Resolvent-based analysis of streaks in turbulent jets, AIAA Aeroacoustics Conference, 2019
- ACT.B02.115. **POLACK J. D.**, **VALIERE J. C.**, **BERTHOLON-PALAZZO B.**, **CARVALHO P.**, A case of archaeological evidence in favour of acoustical intentions linked with pots in church vaults: Montivilliers Abbey, 23rd International Congress on Acoustics, 9- 13 September 2019, 2019
- ACT.B02.116. **SEMERARO O.**, **JORDAN P.**, **JAUNET V.**, **LUSSEYRAN F.**, Nonlinear jet-flap interactions: A dynamical-systems analysis, AIAA Aeroacoustics Conference, 2019
- ACT.B02.117. **VALIERE J. C.**, **LEFEVRE C.**, **COLLOUD F.**, Identification of the consequence of a pianist's motions on his/her sound by means of psychoacoustic tests and motion capture, 26th International Congress on Sound and Vibration, 7-11, July 2019, 2019
- ACT.B02.118. **VALIERE J. C.**, **DUPUY E.**, **PALAZZO-BERTHOLON B.**, From Methodology to Archeoacoustics in the Time of Scripture: Complex Dialogue between Archaeological Evidence, Texts from Scholars and Written, 23rd International Congress on Acoustics, 9- 13 September 2019, 2019
- ACT.B02.119. **VALIERE J. C.**, **LE TYRANT K.**, **LE GENTIL M.**, **BERTHOLON-PALAZZO B.**, The Difficult Compromise between Conservation and Modern Functions of Heritage Buildings; the Case of the Restoration of the "Abbaye des Anges" and its 110 Acoustic Pots, 23rd International Congress on Acoustics, 9- 13 September 2019, 2019
- ACT.B02.120. **WONG M. H.**, **EDGINGTON-MITCHELL D.**, **HONNERY D. R.**, **CAVALIERI A. V. G.**, **JORDAN P.**, A parabolised stability equation based broadband shock-associated noise model, AIAA Aeroacoustics Conference, 2019
- ACT.B02.121. **MANCINELLI M.**, **JAUNET V.**, **DUPONT P.**, **JORDAN P.**, **TOWNE A.**, **GIRARD S.**, A complex-mode model for screech-frequency predictions in supersonic jets, 54th International Conference on Applied Aerodynamics, 25-27 Mars 2019, 2019
- ACT.B02.122. **MANCINELLI M.**, **JAUNET V.**, **DUPONT P.**, **JORDAN P.**, **TOWNE A.**, **GIRARD S.**, Linear and non-linear aspects of screech dynamics in supersonic jets, 54th International Conference on Applied Aerodynamics, 25-27 Mars 2019, 2019
- ACT.B02.123. **MELDI M.**, Improved near-wall flow prediction combining Immersed Boundary Method and Data Assimilation. In Proceedings of DLES12 . ERCOFTAC Workshop Direct and Large-Eddy Simulation 12, June 2019, Madrid, Spain.

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- ACT.B02.124. **MATOUG C.**, **AUGIER B.**, **PAILLARD B.**, **MAURICE G.**, **SICOT C.**, **BARRE S.**, Comparison of VAWT and HAWT performance on floating offshore platform: An experimental hybrid testing approach, Torque 2020, 27-29 may 2020, 2020

- ACT.B02.125. **BAKULU F., LEHNASCH G., JAUNET V., GONCALVES E., GIRARD S.** Resonance of shock-induced separated jets in truncated ideal contour supersonic nozzles, 55th International Conference on Applied Aerodynamics, 23-25 Mars 2020, 2020
- ACT.B02.126. **BENARD N., KOTSONIS M., ZONG H., ACHER G., AUDIER P., BONNET J.P., MOREAU E.**, New pulsed jet using spark plasma discharge: Subsonic configuration, AIAA meeting SCITECH, Jan. 2020, Orlando
- ACT.B02.127. **ZHOU Y., OLLIVIER F., CHALLANDE P., MARCHIANO R., VALEAU V., MARX D., PRAX C.**, Design and use of a three-dimensional array of MEMS microphones for aeroacoustic measurements in wind-tunnels, Berlin Beamforming Conference, Berlin, Mars 2020, 2020

Autres produits présentés dans des colloques / congrès et des séminaires de recherche

2015

- COM.B02.1. **BONNET J. P., ACHER G., LEBEDEV A., BENARD N., MOREAU E.**, A new plasma-driven pulsed jet actuator for flow control, 68th Annual Meeting of the APS Division of Fluid Dynamics, 2015
- COM.B02.2. **BONNET J. P., NOACK B. R.**, Physical Mechanisms of Turbulence Control , Whither Turbulence and Big Data In the 21st Century. Understanding and Harnessing Turbulence' Dedicated to honour Professor Bill George's 70th birthday, 2015
- COM.B02.3. **DAVID L., BEAUDOIN A., BOREE J., CHATELLIER L., JARDIN T., JEON Y. J., PONS F., TREMBLAIS B., SICOT C.**, Workshop on Non-Intrusive Measurements for unsteady flows and aerodynamics , 2015
- COM.B02.4. **NOACK B. R., CORDIER L., PAREZANOVIC V., BONNET J. P., ABEL M., DURIEZ T., BRUNTON S.**, Closed loop turbulence control using machine learning , Whither Turbulence and Big Data In the 21st Century. Understanding and Harnessing Turbulence' Dedicated to honour Professor Bill George's 70th birthday, 2015
- COM.B02.5. **TECHER A., LEHNASCH G., MURA A.**, Numerical simulation of turbulent combustion between a hydrogen jet and a supersonic vitiated air crossflow, 15th International Conference on Numerical Combustion , 2015
- COM.B02.6. **CONSTANT E., LI C., FAVIER J., MELIGA P., SERRE E., MELDI M.**, An immersed boundary method for the simulation of fluid-structure interactions in OpenFOAM. Fluid-Structure Interactions and Vortex Dynamics in Aerodynamics, Porquerolles, France, June 2015.

2016

- COM.B02.7. **IOANNOU V., MARGNAT F., LAIZET S.**, High-Fidelity simulation of incompressible turbulent jets and jet noise predictions using Lighthill's solution, Euromech Colloquium 571 IUTAM Symposium Jet Noise Modelling and Control , 2016
- COM.B02.8. **GAVA F., POUX A., MELDI M.**, Coupling CFD / experiments: implementation of a Kalman filter based approach. 1ere Journée des Utilisateurs OpenFOAM, Rouen, France, May 2016.
- COM.B02.9. **POUX A., MELDI M.**, A reduced order method based on Kalman filtering for augmented prediction of turbulent flows. International Workshop on Non-Intrusive Optical Flow Diagnostics, Delft, The Netherlands, October 2016.

2017

- COM.B02.10. **BALTEAN-CARLES D., WEISMAN C., BAILLIET H., REYT I., DARU V.**, Numerical and experimental investigation of the role of inertia on acoustic Rayleigh streaming in a standing wave guide, Acoustics '17 Boston, 2017
- COM.B02.11. **BARROS D., BOREE J., SPOHN A., NOACK B. R.**, Manipulation of 3D Turbulent Wakes by Shear Layer Forcing, Symposium on Physics and Control of Turbulent Shear Flow, 2017
- COM.B02.12. **BOREE J., LI R., BARROS D., CADOT O., NOACK B. R., CORDIER L.**, Feedback control of bimodal wake dynamics, Symposium on Physics and Control of Turbulent Shear Flow, 2017
- COM.B02.13. **DARU V., REYT I., BAILLIET H., WEISMAN C., BALTEAN-CARLES D.**, Evolution of Rayleigh streaming flow velocity components in a resonant wave guide at high acoustic levels , Acoustics '17 Boston, 2017
- COM.B02.14. **LAMBERT M. A.**, Numerical and Experimental Investigations on the Shape and Roughness of Cylindrical Critical Flow Venturi Nozzle (CFVN), 18e Congres International de Metrologie (CIM2017), 2017
- COM.B02.15. **VALIERE J. C., BERTHOLON-PALAZZO B., CARVALHO P., DUPUY E., FIALA D., ZARA V.**, The contribution of human sciences to the interpretation of the use of acoustic pots in France and in bordering countries from the 12th to the 17th century , Acoustics '17 Boston, 2017
- COM.B02.16. **VALIERE J. C., BERTHOLON-PALAZZO B., BARONE N.**, An example of the restoration of a Monastic Churches with acoustic pots: L'Abbaye des Anges of l'Aber-Wrach (Britany), Acoustics '17 Boston, 2017



2018

- COM.B02.17. **VALIERE J. C.**, CARVALHO P., PALAZZO-BERTHOLON B., FIALA D., ZARA V., DUPUY E., POLACK J. D., On the intention to modify sound propagation in medieval and modern worship places: the case of the Abbaye de Montivillers, 24th Annual Meeting European Association of Archaeologists, EAA 2018, 2018

2019

- COM.B02.18. CARUSONE A., **SICOT C.**, **BONNET J-P.**, **BORÉE J.**, Transient loads control on a NACA 0015 airfoil. 5th Symposium on Fluid-Structure-Sound Interactions and Control. 27-30 August, Chania, Crete island, Greece, 2019
- COM.B02.19. CARUSONE A., **SICOT C.**, **BONNET J-P.**, **BORÉE J.**, Transient phenomena in separation control over a NACA airfoil. Reynolds Number Effect: Implications for Understanding and Controlling Turbulence. March 27-30, Shenzhen, Chine, 2019
- COM.B02.20. HAFFNER Y., **SPOHN A.**, **BORÉE J.**, CASTELAIN T., Transient dynamics of the turbulent wake of a three dimensional blunt body. 17th European turbulence conference, 3-6 September Torino, Italy, 2019
- COM.B02.21. **MELDI M.**, State Estimation for wall-bounded turbulent flows using the Immersed Boundary Method and Data Assimilation, FrontUQ19 Workshop on Frontiers of Uncertainty Quantification in Fluid Dynamics – Pisa (Italy) – 11-13 September 2019