

Publications of Prof. P. Rambaud 2010-2000

Contributions to Books

PINNA, F.; TIRTEY, S.; CHAZOT, O.; RAMBAUD, P.: Simulation of induced transition in hypersonic regime: Validation of foot print of the vortical structures
In "Advances in Turbulence XII", Edited by B. Eckhardt, Springer-Verlag Berlin Heidelberg, 2009, ISBN 978-3-642-03084-0, pp 901-902
VKI RP 2009-49

BERGER, R.; DEPARDON, S.; RAMBAUD, P.; BUCHLIN, J.-M.: Experimental investigation of a 2d impinging jet on a liquid surface
In "Computational Methods in Multiphase Flow V", Mammoli, AA. & Brebbia, C.A.; Witpress, Boston, USA, 2009, ISBN 978-1-84564-188-7, pp 507-520
VKI RP 2009-34

BILKA, M. & RAMBAUD, P.: Application and limitation of wavelet transform and POD to vortical flows
In VKI LS 2008-01, Post-processing of Numerical and Experimental Data, Rhode-St-Genèse, M.L. Riethmuller, ed.; von Karman Institute, Belgium, 2008, ISBN-13 978-2-930389-80-X
VKI RP 2008-08

LOHÁSZ, M.; RAMBAUD, P.; BENOCCHI, C.: Conditional averaging of the fully developed stationary ribbed duct flow using Q criteria
Progress in Turbulence 2, Proceedings of the iTi Conference in Turbulence 2005, Springer Proceedings in Physics, Oberlack, M.; Guenther, S.; Weller, T.; Khujadze, G.; Osman, A.; Frewer, M.; Peinke, J. (Eds.), Vol. 109, 2007, Approx. 400 p., Hardcover, ISBN-10: 3-540-32602-2, ISBN-13: 978-3-540-32602-1
VKI RP 2005-78

Archival Journals

TÓTH, B.; LEMA, M.R.; RAMBAUD, P.; ANTHOINE, J.; STEELANT, J.: Single-phase internal flowfield validation with an experimental solid rocket motor model
Journal of Propulsion and Power, November-December 2009, Vol. 25, Issue 6, pp 1311-1321
VKI RP 2010-04

GORLÉ, C.; VAN BEECK, J.P.A.J.; RAMBAUD, P.; VAN TENDELOO, G.: CFD modelling of small particle dispersion: the influence of the turbulence kinetic energy in the atmospheric boundary layer
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VKI RP 2009-04

MYRILLAS, M.; GOSSET, A.; RAMBAUD, P.; BUCHLIN, J.-M.: CFD simulation of gas-jet wiping process
European Physical Journal Special Topics, Vol. 166, 2009, pp 93-97
VKI RP 2007-77

LOHÁSZ, M. M.; RAMBAUD, P.; BENOCCI, C.: Flow features in a fully developed ribbed duct flow as a result of MILES
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VKI RP 2007-03

KOLOSZÁR, L.E.; RAMBAUD, P.; ANTHOINE, J.: Airfoil noise in a turbulent jet
Fluent News, Vol. XIV, N°3, Fall 2005, pp 34-35
VKI RP 2006-21

ÖZSOY, E.; RAMBAUD, P.; STITOU, A.; RIETHMULLER, M.L.: Vortex characteristics in laminar cavity flow at very low Mach number
Experiments in Fluids, Vol. 38, N°2, February 2005, pp 133-145
VKI RP 2005-21

GARCIA SAGRADO, A.P.; VAN BEECK, J.P.A.J.; RAMBAUD, P.; OLIVARI, D.: Numerical and experimental modelling of pollutant dispersion in a street canyon
Journal of Wind Engineering and Industrial Aerodynamics, Vol. 90, 2002, pp 321-339
VKI RP 2000-45

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Powder Technology, Vol. 125, 2002, pp 199-205
VKI RP 2001-16

Meeting Papers

KOLOSZÁR, L.E.; PRÖBSTING, S.; VILLEDIEU, N.; RAMBAUD, P.; ANTHOINE, J.: Simulation of noise propagation induced by two co-rotative vortices
International Open Source Conference, Barcelona, Spain, November 12-13, 2009
VKI RP 2010-14

KOLOSZÁR, L.E.; VILLEDIEU, N.; RAMBAUD, P.; ANTHOINE, J.: Residual distribution method for aeroacoustics
4th Scientific Workshop of X3-NOISE, 13th CEAS-ASC Workshop, October 1-2, 2009, Bucharest, Romania
VKI RP 2010-03

KOLOSZÁR, L.E.; VILLEDIEU, N.; QUINTINO, T.; RAMBAUD, P.; ANTHOINE, J.: Artificial numerical damping for linearized Euler equation implemented in residual distribution method
3rd European Conference for Aerospace Sciences, EUCASS, July 6-9, Versailles, France

VKI RP 2009-75

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15th AIAA/CEAS Aeroacoustics Conference, (30th AIAA Aeroacoustics Conference),
Miami, Florida, May 11-13, 2009, AIAA 2009-3116
VKI RP 2009-73

SARACOGLU, B.H.; PANIAGUA, G.; RAMBAUD, P.: Blunt trailing edge cooling
effects at supersonic regime
45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, August 2-5,
2009, Denver, Colorado, USA
VKI RP 2009-35

BERGER, R.; DEPARDON, S.; RAMBAUD, P.; BUCHLIN, J.-M.: LES - PIV
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ASME International Mechanical Engineering Congress and Exposition, Boston, USA,
October 31 - November 6, 2008
VKI RP 2009-01

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décomposition orthogonale
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19, 2008
VKI RP 2008-66

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J.: Robust aeroacoustic computations based on Curle's and Powell's analogies
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15-17, 2008
VKI RP 2008-49

GOSSET, A.; RAMBAUD, P.; PLANQUART, PH.; BUCHLIN, J.-M.; ROBERT, E.:
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6th International Symposium on Multiphase Flow, Heat and Energy Conversion, Xi'an,
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pressure drop in two-phase flow within singular geometries
6th International Symposium on Multiphase Flow, Heat and Energy Conversion, Xi'an,
China, July 11-15, 2009
VKI RP 2009-22

KOURAKOS, V.G.; RAMBAUD, P.; CHABANE, S.; PIERRAT, D.; BUCHLIN, J.M.:
Two-phase flow modelling within expansion and contraction singularities

Fifth International Conference on Computational and Experimental Methods in
Multiphase and Complex Flow, New Forest, United Kingdom, June 15-17 2009
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CHRISTOPHE, J.; ANTHOINE, J.; RAMBAUD, P.: Numerical issues in the application
of an Amiet model for spanwise-varying incoming turbulence
14th AIAA/CEAS Aeroacoustics Conference (29th AIAA Aeroacoustics Conference),
Vancouver, Canada, May 5-7, 2008, AIAA 2008-2865
VKI RP 2008-51

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LES in Science and Technology, Poznan, Poland, April 21-22, 2008
VKI RP 2008-33

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TÓTH, B.; LEMA, M.R.; RAMBAUD, P.; ANTHOINE, J.: Assessment of slag
accumulation in solid rocket boosters: Summary of the VKI research
43rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Cincinnati, OH,
USA, July 8 - 11, 2007, AIAA 2007-5760
VKI RP 2007-41

ARTS, T.; BENOCCI, C.; RAMBAUD, P.: Experimental and numerical investigation of
flow and heat transfer in a ribbed square duct
3rd International Symposium on Integrating CFD and Experiments in Aerodynamics, U.S.
Air Force Academy, CO, USA, June 20-21 2007
VKI RP 2007-36

CHRISTOPHE, J.; ANTHOINE, J.; RAMBAUD, P.; SCHRAM, C.; MATHEY, F.;
MOREAU, S.: Prediction of incoming turbulent noise using a combined numerical /
semi-empirical method and experimental validation
13th AIAA/CEAS Aeroacoustics Conference (28th AIAA Aeroacoustics Conference),
Roma, Italy, May 21-23, 2007
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VKI RP 2007-37

VASS, P.; RAMBAUD, P.; ARTS, T.; BENOCCI, C.
Numerical investigation of flow and heat transfer in a ribbed square duct applying LES
7th European Conference on Turbomachinery Fluid Dynamics and Thermodynamics,
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CHRISTOPHE, J.; ANTHOINE, J.; RAMBAUD, P.: Numerical prediction of the noise emitted by an airfoil in a turbulent jet with an aeroacoustic hybrid method
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VKI RP 2006-46

LEMA, M.R.; RAMBAUD, P.; ANTHOINE, J.; STEELANT, J.: Assessment of slag Accumulation in Solid Rocket Boosters: Part III, Two-phase flow CFD
42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Sacramento (CA), USA, July 9-12, 2006, AIAA 2006-4431
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VKI RP 2006-30

YILDIZ, D.; RAMBAUD, P.; VAN BEECK, J.P.A.J.; BUCHLIN, J.-M.: Effect of the initial flow conditions on the evolution of the droplet size and velocity in superheated liquid jet atomization
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VKI RP 2006-27

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Proceedings of FEDSM2006: 2006 ASME Joint U.S.- European Fluids Engineering Summer Meeting, July 17-20, 2006, Miami, FL., USA
VKI RP 2006-26

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VKI RP 2005-80

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Sixth European Coating Symposium, September 7-9, 2005, Bradford, United Kingdom
VKI RP 2005-64

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VKI RP 2005-44

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AVT-124 Specialists Meeting on "Recent Developments in Non-Intrusive Measurement Technology for Military Application on Model-and Full-Scale Vehicles", April 25-29, 2005, Hungary
VKI RP 2005-20

LOHÁSZ, M. M.; RAMBAUD, P.; BENOCCI, C.: Flow features in a fully developed ribbed duct flow as a result of LES
ERCOFTAC International Symposium on Engineering Turbulence Modelling and Measurements -ETMM6-, May 23-25, 2005, Sardinia, Italy
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LOHÁSZ, M. M.; RAMBAUD, P.; BENOCCI, C.: LES flow inside a square section ribbed duct channel
Benelux Fluent User Group Meeting, October 2-3, 2003, Limelette, Belgium
VKI RP 2004-65

GARCIA, A.; DEZSÖ-WEIDINGER, G.; RAMBAUD, P.; VAN BEECK, J.P.A.J.: Laser diagnostics compared to CFD for gas dispersion in urban environments
RTO Meeting, AVT-120, 1st Workshop on "Urban Dispersion Modelling", April 1-2, 2004, Rhode-St-Genèse, Belgium
VKI RP 2004-64

ÖZSOY, E.; RAMBAUD, P.; STITOU, A.; RIETHMULLER, M.L.: Investigation of vortex statistics in laminar cavity flow by PIV measurements
12th International Symposium on Applications of Laser to Fluid Mechanics, July 12-15, 2004, Lisbon, Portugal
VKI RP 2004-62

LOHÁSZ, M. M.; RAMBAUD, P.; BENOCCHI, C.: MILES flow inside a square section ribbed duct
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VKI RP 2004-58

YILDIZ, D.; RAMBAUD, P.; VAN BEECK, J. P. A. J. : Distribution de vitesse et granulométrie d'une atomisation de R134A en état de surchauffe
Congrès Francophone de Vélocimétrie Laser, 14-17 septembre 2004, Bruxelles, Belgique
VKI RP 2004-46

OZSOY, E.; RAMBAUD, P.; STITOU, A. ; RIETHMULLER, M.L. : Caractéristiques des tourbillons créés au-dessus d'une cavité en régime laminaire par mesures PIV
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VKI RP 2004-44

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19th Annual Meeting of the Institute for Liquid Atomization and Spray Systems, Nottingham, U.K., September 6-8, 2004
VKI RP 2004-36

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5th International Conference on Multiphase Flow, ICMF'04 Yokohama, Japan, May 30–June 4, 2004 Paper No. 314
VKI RP 2004-13

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5th International Conference on Multiphase Flow, ICMF'04, Yokohama, Japan, May 30–June 4, 2004, Paper No. 408
VKI RP 2004-12

LOHASZ, M. M.; RAMBAUD, P.; BENOCCI, C.: LES computation of flow in a ribbed square duct using Fluent and comparison to PIV
Environmental and industrial CFD simulations, Prague, Czech Republic, February 23-27, 2004

VKI RP 2004-11

OZSOY, E.; RAMBAUD, P.; STITOU, A. ; RIETHMULLER, M.L.: Characterization of vortices in a cavity at low speed

FLUCOME'03, 7th Triennial International Symposium on Fluid Control, Measurement and Visualization, Sorrento, Italy, August 25-28, 2003

LOHÁSZ, M.; RAMBAUD, P.; BENOCCI, C.: LES simulation of ribbed square duct flow with Fluent and comparison with PIV data

Conference on Modelling Fluid Flow (CMFF'03), 12th International Conference on Fluid Flow Technologies, Budapest, Hungary, September 3-6, 2003

VKI RP 2003-31

YILDIZ, D.; RAMBAUD, P.; VAN BEECK, J.P.A.J.; BUCHLIN, J.-M.: Evaporation of a R134-A two-phase flashing jet

6th National Congress on Theoretical and Applied Mechanics, Ghent, Belgium, May 26-27, 2003

YILDIZ, D.; RAMBAUD, P.; VAN BEECK, J.P.A.J.; BUCHLIN, J.-M.: Thermal characterization of a R134A two-phase flashing jet

ICLASS 2003 – 9th International Conference on Liquid Atomization and Spray Systems, Sorrento, Italy, July 13-18, 2003

VKI RP 2003-24

RAMBAUD, P.; OSTERLÉ, B.; TANIÈRE, A.: Assessment of integral time scales in a gas-solid channel flow with relevance to particle dispersion modeling

10th Workshop on Two Phase Flow Predictions, April 9 - 12, 2002, Halle (Saale), Germany

VKI RP 2002-72

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11th International Symposium on Application of Laser Techniques to Fluid Mechanics, Lisbon, Portugal, July 8-11, 2002

VKI RP 2002-35

PLANQUART, PH.; RAMBAUD, P.; RIETHMULLER, M.L. : Etude par simulations numériques d'un séparateur pour l'industrie du ciment

5ème Congrès National de Mécanique Théorique et Appliquée, Louvain-la-Neuve, Belgique, May 23-24, 2000

VKI RP 2000-15