| DNW facility | Publication | Author(s) | Topics of investigation (#1) | Topics of investigation (#2) | Link to paper | Event | Year |
| --- | --- | --- | --- | --- | --- | --- | --- |
| LLF | Wind tunnel test on the breakthrough laminar aircraft demonstrator Europe in the DNW-LLF | **Postma, J.; Artois, K.; Philipsen, I. (DNW)** | Acoustics |  | <https://arc.aiaa.org/doi/10.2514/6.2015-1561> | AIAA SciTech Forum | 2015 |
| NWB | Investigating noise shielding by unconventional aircraft configurations | K.-S. Rossignol, M. Pott-Pollenske, J. Delfs (all DLR), J. Siberman (Bernhard Halle Nachfolger GmbH), **M. Pereira Gomes (DNW)** | Acoustics |  | <https://elib.dlr.de/117125/> | AIAA/CEAS Aeroacoustics Conference | 2017 |
| LLF | From ERATO basic research to the blue edge rotor blade | Van der Wall, B.; Kessler, C.; (DLR) Delrieux, Y.; Beaumier, P.; Crozier, P.; (ONERA) Gervais, M.; Hirsch, J. (Airbus Helicopters) ; **Pengel, K. (DNW)** | Acoustics |  | <https://elib.dlr.de/104300/> | American Helicopter Society AHS | 2016 |
| HST | Overview about wind tunnel flutter testing on a highly flexible wing for aeroelastic validation in the transonic regime within the HMAE1 project | Y. Govers (NLR), H. Mai, J. Arnold, J. Dillinger (DLR) | Aeroelasticity |  |  | International Forum on Aeroelasticity and Structural Dynamics IFASD | 2019 |
| HST | Online monitoring of flutter stability during wind tunnel testing of an elastic wing with pylon and engine nacelle | M. Boeswald, Y. Govers, G. Jelicic, R. Buchbach (DLR) | Aeroelasticity |  |  | International Forum on Aeroelasticity and Structural Dynamics IFASD | 2019 |
| LLF | DNW innovations in wind tunnel testing - New moving belt system for Large Low speed Facility - | **C. Hermans, S. Hegen (DNW)** | Ground effect |  | <https://link.springer.com/article/10.1007/s13272-018-0285-4> | CEAS Aeronautical Journal | 2015 |
| LLF | Wind tunnel test on the breakthrough laminar aircraft demonstrator Europe in the DNW-LLF | **Postma, J, Artois, K., Philipsen, I. (DNW)** | Measurement techniques | Infra-red transition detection | <https://arc.aiaa.org/doi/10.2514/6.2015-1561> | AIAA SciTech Forum | 2015 |
| KKK | A Check Tool for the Half-Model Balance of the Cryogenic Wind Tunnel Cologne DNW- KKK | **J. Zhai, R. Rebstock (DNW),** Klaus Hufnagel (TU Darmstadt) | Measurement techniques | Load balances | https://arc.aiaa.org/doi/10.2514/6.2013-417 | AIAA Aerospace Sciences Meeting | 2014 |
| LLF | Landing Gear Doors Aerodynamic Loads Calculation Using Numerical and Experimental Methods | J Allan A. Lyrio, Jason de Barros, Andre F. P. Ribeiro (Embraer, EXA) | Measurement techniques | Load balances |  | International Forum on Aeroelasticity and Structural Dynamics IFASD | 2019 |
| LLF | Correction method for thermomechanical strain in internal sting balances based on thermal modal analysis | Gerrit Jan M. Schutten, Bram A.T. Noordman (NLR), **Koen Artois (DNW)** | Measurement techniques | Load balances |  | International Symposium on Strain Gage Balances ISSGB | 2018 |
| TWG | Background-oriented Schlieren image of flow around a circular cylinder at low Mach numbers | H. Stadler, A. Bauknecht, S.F. Siegrist, N. van Hinsberg, **M. Jacobs (DNW)** | Measurement techniques | Schlieren | <https://rd.springer.com/article/10.1007/s00348-017-2398-7> | Journal; of Experimental Fluids | 2017 |
| LLF | Individual blade control of a 5-bladed rotor using the multiple swashplate system | Küfmann, P.; Bartels, R.; Wall, B.G. van der; Schneider, O. (DLR); **Holthusen, H.; Postma, J. (DNW)** | Measurement techniques | SPR | <https://elib.dlr.de/114772/1/vanderWall%20-%20ARF2017_META.pdf> | European rotorcraft Forum ERF | 2017 |
| LST | Tracking dynamically scaled objects during a helicopter wind tunnel test | Anton de Bruin, Karel Lammers (NLR), **Iwan Philipsen, Jos Postma (DNW)**, Minhyoung Ryu (KAI) | Measurement techniques | SPR |  | European rotorcraft Forum ERF | 2018 |
| HDG, KKK | Combination of temperature-sensitive paint (TSP) and carbon nanotubes (CNT) for transition detection | Klein, C.; Henne, U.; Sachs, W.; Beifuss, U.; Ondrus, U.; (all DLR) **Bruse, M.; Lesjak, R.; Löhr, M.; Becher, A.; Zhai, J. (DNW)** | Measurement techniques | TSP | <https://arc.aiaa.org/doi/pdf/10.2514/6.2015-1558> | AIAA SciTech Forum | 2015 |
| LLF | Compact air-line bridge system for propulsion integration testing in DNW-LLF | **Koen Artois, Iwan Philipsen (DNW)** | Propulsion simulation | Load balances |  | International Symposium on Strain gage Balances ISSGB | 2016 |
| LST | Release Of Dynamically Scaled Objects From A Helicopter Wind Tunnel Model | K.H. Lammers (NLR), I. **Philipsen (DNW**), M.H. Ryu 9KAU) | Store Separation Simulation |  |  | ICAS Conference | 2018 |
| HST | Consistency verifications of the DNW-HST tunnel interference correction bookkeeping | **Gebbink, R.; Kapteijn, K. (DNW)** et al. (SADRI of COMAC) | Wind tunnel corrections |  | <https://arc.aiaa.org/doi/10.2514/6.2018-2116> | AIAA SciTech Forum | 2018 |
| HST | Wind tunnel model support and wall interference corrections in DNW-HST - ensuring high data quality standards | **Wubben, F (DNW);** Takara, E.K. (EMBRAER) | Wind tunnel corrections |  | <https://aerospace-europe.eu/digital-library/digital-library-ceas/papers-ceas-1/wind-tunnel-model-support-and-wall-interference-corrections-in-dnw-hst-ensuring-high-data-quality-standards-/> | CEAS Air & Space conference | 2015 |
| HST | Verification of wind tunnel model support and wall interference assessments in DNW- HST by CFD simulations | **Frenk Wubben (DNW)**, Hans Maseland (NLR) | Wind tunnel interference |  | <https://www.sto.nato.int/publications/STO%20Meeting%20Proceedings/STO-MP-AVT-284/MP-AVT-284-05.pdf> | NATO STO-MP-AVT-284 | 2018 |
| NWB | Numerical and experimental investigation of propeller slipstream interaction with active high lift wing | **C. Lenfers (DNW),** N. Beck, R. Radespiel (Technical University Braunschweig) |  |  | <https://arc.aiaa.org/doi/10.2514/6.2017-3248> | AIAA Aviation Forum | 2017 |
| HDG | High Reynolds number CFD benchmark: Introduction and overview of wind tunnel test program | Wu, Guangyu; Kramer, M.; Ma, Wie; Kim, Jang Whan; Koo, Bonjun; Lim, Ho Joon; Jang, Hyunchul; Lambrakos, K.; O'Sullivan, J.; Van Hinsberg, N.P.; Schewe, G. and **Jacobs, M. (DNW)** |  |  | https://elib.dlr.de/104963/ | ASME International Conference on Ocean, Offshore and Arctic Engineering | 2016 |
| ? | Experimental aerodynamic assessment and evaluation of an agile highly swept aircraft configuration | **Huber, K.C., Löser, T. (DNW);** Schütte, A.; Rein, M. (DLR) |  |  | <https://elib.dlr.de/110279/> | CEAS Aeronautical Journal | 2017 |
| TWG | Control Concepts for an Agile and Highly Swept Flying Wing Configuration | **K.C. Huber, T. Löser (DNW)**, A. Schütte, M. Rein (DLR) |  |  | <https://elib.dlr.de/121630/> | German Aerospace Congress | 2018 |
| NWB | Experimental and numerical investigations of unsteady aerodynamic derivatives for a generic lambda wing UCAV configuration | **K.C. Huber (DNW)** |  |  |  | German Aerospace Congress | 2018 |
| TWG | Experimental aerodynamic assessment and evaluation of an agile highly swept aircraft configuration | **K.C. Huber, T. Löser (DNW)**, A. Schütte, M. Rein (DLR) |  |  | <https://link.springer.com/article/10.1007/s13272-016-0219-y> | German Aerospace Congress | 2017 |
| ? | Experiments on the aerodynamic behaviour of square cylinders with rounded corners at Reynolds numbers up to 12 million | N. Hinsberg, G. Schewe, **M. Jacobs (DNW)** |  |  | https://www.sciencedirect.com/science/article/pii/S0889974616307356 | Journal of Fluids and Structures | 2017 |
| HDG | Analysis of high Reynolds number effects on a wind turbine airfoil using 2D wind tunnel test data | Pires, O.; Munduate, X.; Ceyhan, O.; **Jacobs, M**.; Snel, H. |  |  | <http://iopscience.iop.org/article/10.1088/1742-6596/753/2/022047> | Journal of Physics | 2016 |
| HDG | Wind tunnel tests of wind turbine airfoils at high Reynolds numbers | E. Llorente, A. Gorostidi (both Acciona Windpower), **M. Jacobs (DNW),** W. A. Timmer (TU Delft), X. Munduate and O. Pires (both Cener) |  |  | <http://iopscience.iop.org/article/10.1088/1742-6596/524/1/012012> | Scientific Wind Energy Conference | 2014 |
| ? | Comparison of high Reynolds number 2D tests performed at two different wind tunnels | Pirez, O.; Munduate, O.; Ceyhan, M.; **Jacobs, M. (DNW**); Snel, H. |  |  |  | Wind Europe Summit | 2016 |
| HST | High-speed wind tunnel test of the CAE-AVM for CFD validation purposes | **Gebbink, R.T. (DNW)**; WANG, Ganglin; ZHONG, Min | Support interference | Wing deformation | <https://arc.aiaa.org/doi/10.2514/6.2017-0332> | AIAA SciTech Forum | 2017 |
| HST | Consistency verifications of the DNW-HST tunnel interference correction bookkeeping | **Gebbink, R.T. and Kapteijn, C. (both DNW)**; BAI, F.; MAO, K.; ZHANG, D.Y.; BA, Y.L.; ZHANG, M.H. | Wind tunnel corrections |  | <https://doi.org/10.2514/6.2018-2116> | AIAA SciTech Forum | 2018 |
| HST | High-speed wind tunnel test of the CAE aerodynamic validation model | **Gebbink, R.T. (DNW)**; WANG, Ganglin; ZHONG, Min | Support interference | Wing deformation | https://doi.org.[10.1016/j.cja.2018.01.010](https://dx.doi.org/10.1016/j.cja.2018.01.010) | Chinese Journal of Aeronautics | 2018 |
| HST | Correlation analysis of combined and separated effects of wing deformation and support system in the CAE-AVM study | ZHONG, Min; ZHENG, Sui; WANG, Ganglin; HUA, Jun; **Gebbink, R.T. (DNW)** | CFD, Support interference | Wing deformation | https.://doi.org.[10.1016/j.cja.2018.01.015](https://dx.doi.org/10.1016/j.cja.2018.01.015) | Chinese Journal of Aeronautics | 2018 |
| HST | Recent development of a CFD wind tunnel correlation study based on CAE-AVM investigation | HUA, Jun; ZHENG, Sui; WANG, Ganglin; **Eitelberg, G.; Hegen, G.H.; Gebbink, R.T. (all three DNW)** | CFD-WT correlation | Support interference; wing deformation | https://doi.org/[10.1016/j.cja.2018.01.017](https://dx.doi.org/10.1016/j.cja.2018.01.017) | Chinese Journal of Aeronautics | 2018 |
| HST | Computational study of wing deformation and sting interference effects with the CAE-AVM test case | Kursakov, I.; Kazhan, E.; **Gebbink, R.T. (DNW)** | CFD, Support interference | Wing deformation | <https://doi.org/10.1016/j.cja.2018.05.018> | Chinese Journal of Aeronautics | 2018 |
| LLF | Design of a multi-stage axial turbine within the scope of complete system design, manufacturing and operation of a new Turbine Propulsion Simulator (TPS) | Krumme, A.; Hegen, S.; Nahuis, R. | Propulsion simulation | TPS | <https://arc.aiaa.org/doi/abs/10.2514/6.2015-2256> | AIAA Applied Aerodynamics Conference | 2015 |
| LLF | Numerical investigation of blockage effects on heavy trucks in full scale test conditions | Soderblom, D.; Elofsson, P.; Hyvärinen, A. | Truck testing | CFD | <https://doi.org/10.4271/2016-01-1607> |  |  |