Workshop Program
PIV/ PTV-based pressure determination, PIV/ PTV pressure challenge and Uncertainty quantification
Munich, June 2nd 2016

9:00 –9:05   **Opening remarks**

Christian J. Kähler (Universität der Bundeswehr Munich)

9:05 –9:30   **Introduction to NIOPLEX**

Bas van Oudheisen (Delft University of Technology)

9:30 –10:00   **Mean pressure and pressure fluctuations from 2C PIV snapshots**

Roeland de Kat, Jacques Van der Kindere and Angeliki Laskari (University of Southampton)

10:00 –10:30   **Adjoint-Based Data Assimilation in Compressible Flow**

Mathias Lemke and Jörn Sesterhenn (Technical University Berlin)

10:30 –11:00   **Coffee break**

11:00 –11:30   **Material acceleration determination for high speed flows by means of Shake-The-Box multi-pulse particle tracking**

Matteo Novara, Daniel Schanz, Sebastian Gesemann and Andreas Schröder (German Aerospace Center (DLR), Göttingen)

11:30 –12:30   **Comparative assessment of PIV-based pressure evaluation techniques applied to a transonic base flow**

Paul Blinde[1], Dirk Michaelis[2], Bas van Oudheusden[1], Pierre-Elie Weiss[3], Roeland de Kat[4], Angeliki Laskari[4], Young Jin Jeon[5], Laurent David[5], Daniel Schanz[6], Florian Huhn[6], Sebastian Gesemann[6], Matteo Novara[6], Cameron McPhaden[7], Nathan Neeteson[7], David Rival[7], Jan FG Schneiders[1], Ferry Schrijer[1]
1: Delft University of Technology, 2: LaVision GmbH, 3: ONERA, 4: University of Southampton, 5CNRS –Université de Poitiers –ISAE-ENSMA, 6: German Aerospace Center (DLR), Göttingen,7: Queen's University, Kingston, Canada

12:30 – 13:00   **Discussion**

13:00 – 14:00   **Lunch**

14:00 – 14:30   **Estimation of velocity gradients from planar PIV measurements**

Sven Scharnowski and Christian J. Kähler (Universität der Bundeswehr Munich)

14:30 – 15:00   **Near-wall 3D flow measurement approaches**

Thomas Fuchs, Rainer Hain, Christian J. Kähler (Universität der Bundeswehr Munich)

15:00 – 15:30   **Component and engine testing at MTU Aero Engines AG**

Jürgen Gründmayer, Martin Stadlbauer (MTU Aero Engines AG)

15:30 – 16:00   **PIV measurements from an automotive perspective**

Hubert Aumiller, Andrea Nati (BMW AG)

16:00 – 17:00   **Final discussion and future aspects**