



LAVISION

FOCUS ON IMAGING

DaVis PIV Seminar

09. - 11.09.2025

Program DaVis PIV seminar 09. - 11.09.2025

Tuesday, 09.09.	9:00 – 9:30	Welcome in the LaVision GmbH facilities, Göttingen, Anna-Vandenhoeck-Ring 19
	9:30 – 12:30	How PIV works ▶ PIV vs. PTV ▶ Cross-Correlation Hardware ▶ CMOS and sCMOS cameras ▶ CW-, pulsed Nd:YAG, pulsed Nd:YLF lasers, LED ▶ Sheet optics
		Break
		Optimization of recording parameter ▶ Particle imaging & seeding the flow ▶ Camera positioning ▶ Focus and contrast ▶ Pulse separation PivDt ▶ Seeding density
	12:30 - 13:30	Lunch break
	13:30 - 17:30	Software session 1 ▶ DaVis 11 basics ▶ PIV processing
		Break
		Lab session 1 ▶ PIV

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Wednesday, 10.09.	9:00 – 12:15	Vector calculation parameter ▶ Evaluation of PIV recordings ▶ Sum of correlation ▶ PIV on GPU ▶ Uncertainty
		<i>Break</i>
		Stereo-PIV ▶ Stereo PIV principle ▶ Scaling/ Calibration ▶ Planar self-calibration Vector postprocessing ▶ Vector range ▶ Q-factor ▶ Median filter
	12:15 - 13:15	<i>Lunch break</i>
	13:15 - 17:00	Lab session 2 ▶ Stereo-PIV
		<i>Break</i> Lab session 2 ▶ Stereo-PIV
	19.00	LaVision invites to a restaurant in downtown Göttingen

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Thursday, 11.09.	9:00 – 12:15	PIV tool dialogs ▶ Correlation map ▶ Probability Density Function (PDF) ▶ Perspective correction and distortion ▶ Wizards
		<i>Break</i>
		Lab session 2 ▶ Stereo-PIV processing ▶ Self-calibration ▶ Vector postprocessing
	12:15 - 13:15	<i>Lunch break</i>
	13:15 – 17:00	Advanced methods & techniques ▶ Micro-PIV ▶ Side-by-side PIV ▶ Proper Orthogonal Decomposition (POD) ▶ Pressure-from-PIV ▶ Tomographic PIV/ STB (basics)
		<i>Break</i>
		Presentation of lab session results Open questions & wrap up