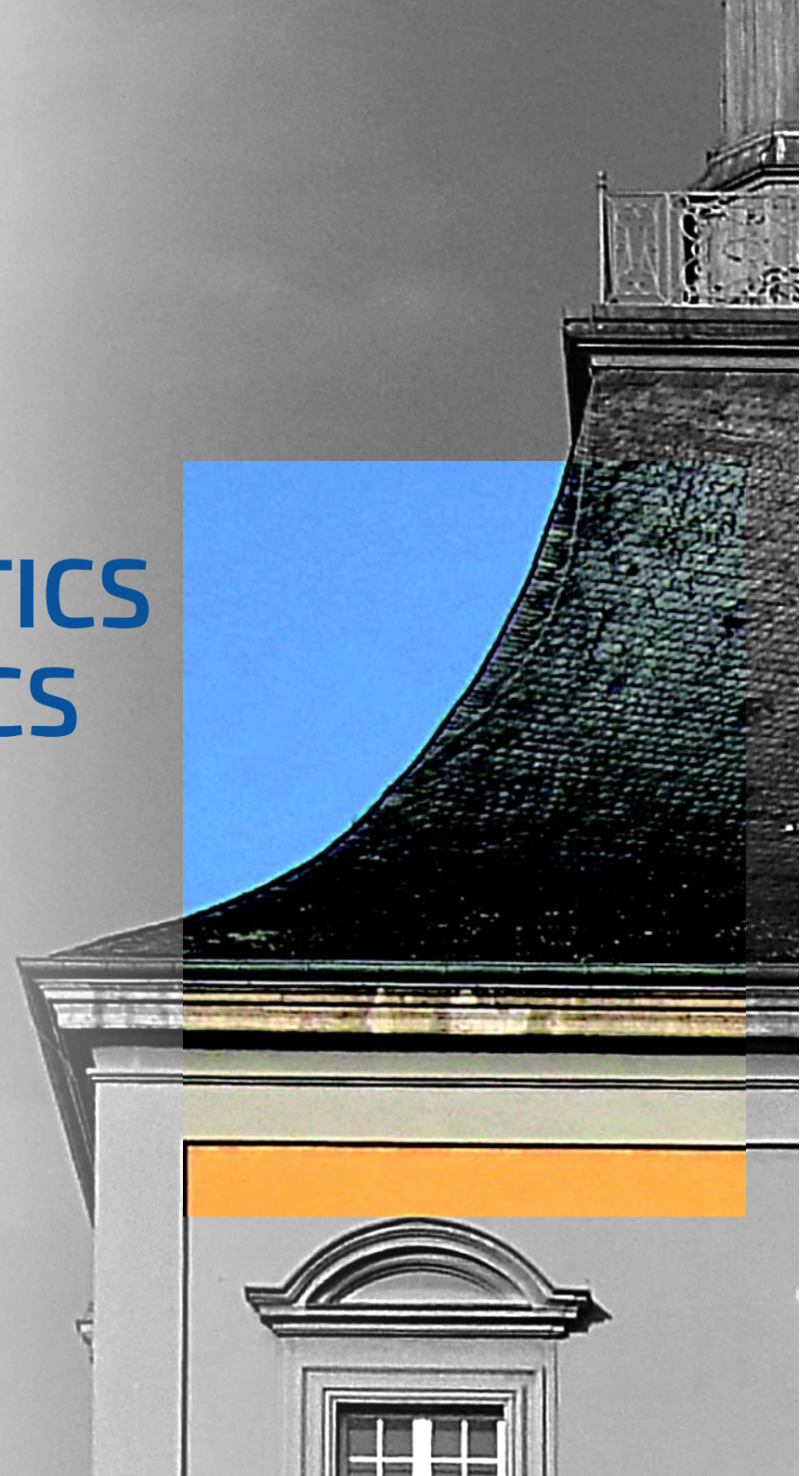


HANDS-ON SEMINAR
**EXPERIMENTAL OPTICS
AND ATOMIC PHYSICS**

PROF. MARTIN WEITZ,

PATRICK GERTZ

FREYA WOLFGARTEN



TOPICS:

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|--|--------------------------|
| – Introduction | April 7, 2025 (Monday) |
| – Introductory laser optics, chopper and photodiode | April 22, 2025 (Tuesday) |
| – Gaussian optics, laser beam profiles, optical fibers | April 24, 2025 |
| – Optical resonators | May 8, 2025 |
| – Diode laser, atomic spectroscopy | May 15, 2025 |
| – Acousto-optical modulators | May 22, 2025 |
| – Beat-signal of modulated laser beams | June 5, 2025 |
| – Radiofrequencies, RC-Filter, RF-Mixer | June 26, 2025 |
| – Light polarisation and birefringency | July 3, 2025 |

GENERAL INFORMATION

- The seminar takes place at the IAP basement lab;
meeting point is in front of the IAP Foyer at 9:00
- Reports need to be handed in until the 31th August, 2025