

## Bad Honnef Summer School “Physics of Imaging” 2026 – Preliminary Timetable

| Time          | Sunday, July 5<br>Arrival              | Monday, July 6<br>Fundamental Concepts                  | Tuesday, July 7<br>Photons and Beyond                                | Wednesday, July 8<br>X-rays and Beyond        | Thursday, July 9<br>Challenges of 3D Imaging           | Friday, July 10<br>Deep & Quantum<br>Imaging               |                   |
|---------------|--|---|--|---|--|--|-------------------|
| 08:00 – 09:00 |  | Breakfast   |  |   |  |  |                   |
| 09:00 – 10:30 |  | Lecture 1: Computational Imaging I – Fundamentals       | Lecture 5: Phase Contrast Imaging and Phase Retrieval I - Holography | Lecture 8: X-ray Imaging at the Limits        | Lecture 10: Tomography I – the ideal and the non-ideal | Lecture 13: Deep Imaging Priors                            |                   |
| 10:30 – 11:00 |  | Coffee Break  |  |   |  |  |                   |
| 11:00 – 12:30 |  | Lecture 2: Computational Imaging II – Advanced Concepts | Lecture 6: Phase Retrieval II – Ptychography & beyond                | Lecture 9: Histology with X-ray Phase Imaging | Lecture 11: Tomography II                              | Lecture 14: Imaging with entangled Photons / Ghost Imaging |                   |
| 12:30 – 14:00 |  | Lunch Break   |  |   |  |  | Lunch & Departure |
| 14:00 – 15:30 |  | Lecture 3: Imaging & Randomness                         | Hands-on Tutorial 1: Toolboxes for Phase Retrieval                   | Contributed Talks /<br>Excursion              | Hands-on Tutorial 2: Toolboxes for Tomography          |  |                   |
| 15:30 – 16:00 |  | Coffee Break  |  |   | Coffee Break   |  |                   |
| 16:00 – 17:30 | Arrival                                | Lecture 4: Inverse Problems in Imaging                  | Lecture 7: Fourier Ptychography                                      |   | Lecture 12: Looking Deeper with Light and Sound        |  |                   |
| 18:00 – 19:00 | Dinner                                 |   |  |   |  |  |                   |
| 19:00 – 21:00 | Welcome and Introduction, Get Together | Poster Session I  |  | Contributed Talks                             | Poster Session II                                      |  |                   |