

Plenarvortrag PV I Mo 8:30 ESA-A
Accelerators - Engines of Discovery — ●ALBRECHT WAGNER —
DESY, Hamburg

Accelerator based Science from Particle Physics to X-ray lasers - a review of 50 years of science at DESY.
Accelerators allow us to probe the structure of matter down to 10-18

m. The talk will review what we have learned about the world from the Nano- to the Attoscale. This includes major discoveries in particle physics and highlights in experiments using synchrotron radiation. X-ray lasers will be the future tool to explore matter and materials at the nanometer scale. These lasers are driven by accelerators and have unprecedented properties. First results from the FLASH facility and an outlook to the European XFEL will be presented.