

Jan Roever

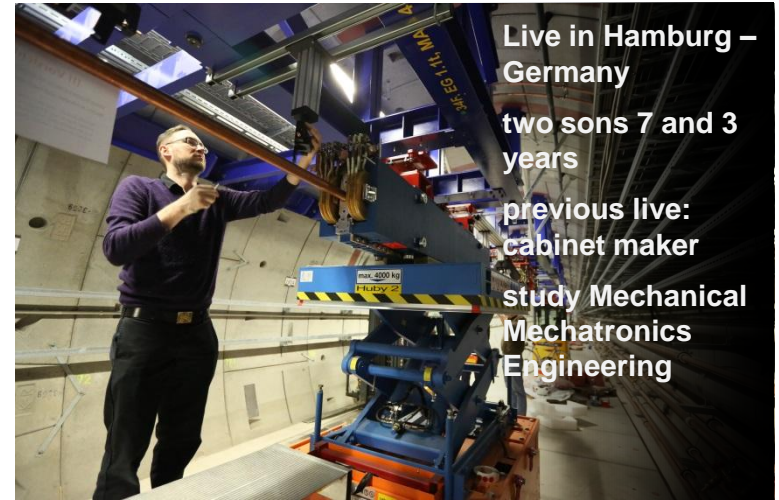
Mechanical-system engineer, DESY

DSEY

experimental station (P11) - installation and some user support (FS-PE 2010-2014)

Beamline installation of the XFEL collimation section (MVS 2014-2016)

installation and some mech. design of the longitudinal diagnostics at XFEL and FLASH (MSK 2016-now)



Live in Hamburg – Germany

two sons 7 and 3 years

previous live: cabinet maker

study Mechanical Mechatronics Engineering

XFEL: vacuum chamber installation

Measuring Longitudinal Electron Bunch Properties

BAM

Electro-Optical Method, In Time Domain

Optical Sampling of a picked-up RF Voltage signal with 40GHz bandwidth.
Measurement of the Arrival Time.
(relative to an optical time reference)

EOD

Electro-Optical Method, Spectral Decoding

Encoding of the electric field density onto an optical Spectrum.
Measurement of the Longitudinal Profile.

BCM

Electrical THz Field Detection and Direct Sampling

Forcing the Electron Bunch to emit coherent THz radiation. Its frequency and intensity varies with the bunch length.
Measurement of the Compression Rate.

