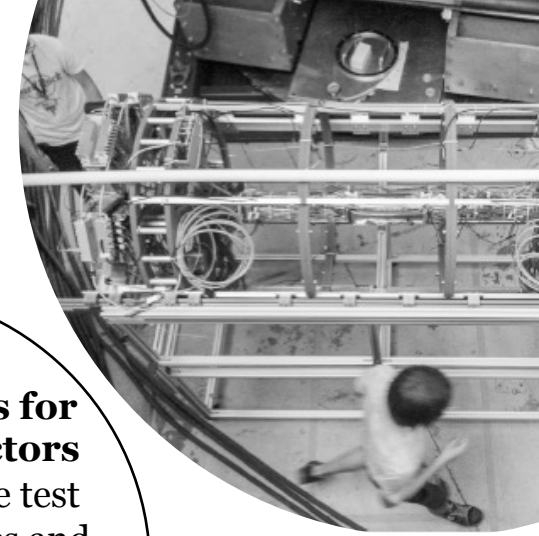
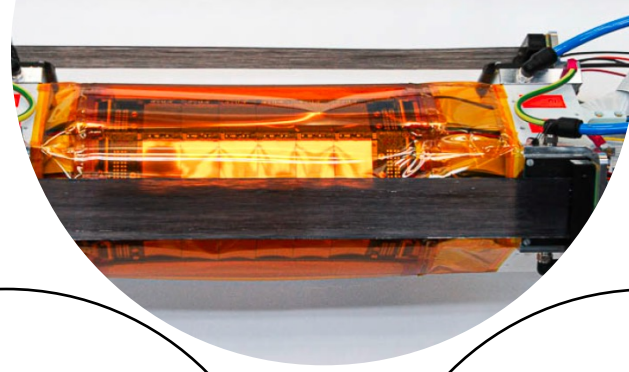


Experimental particle physics at CMS and PSI

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Physics analysis in CMS

Study process with Higgs bosons and heavy quarks and look for new physics
Skills you learn: physics at the energy frontier, analysis techniques, programming and algorithms, statistical methods, work within international collaboration, ...

Modules for CMS pixel detector upgrade

Test and characterize modules for the next CMS pixel detector
Skills you learn: hands-on lab work on detector instrumentation, calibration methods, programming and algorithms, ...

CMOS electronics for future pixel detectors

Measure and analyze test structures, electronics and readout chips
Skills you learn: hands-on lab work on chip testing, analog and digital electronics, programming, ...

→ Many projects with duration of 3-12 months

Muze experiment at PSI

Work on tracking system for the muze experiment
Skills you learn: physics at the intensity frontier, hands-on work with particle beams at PSI, analysis methods, programming and algorithms, ...

Spin-off applications of pixel detectors

Contribute to applied research with pixel detectors in other fields at PSI (x-ray imaging at SLS or SwissFEL, muon spin spectroscopy at μ SR)
Skills you learn: applied physics, hands-on lab work, simulations, programming, ...

