Workshops



Mechanical Workshop

The **mechanical workshop** produces complex parts for all the experiments in house as well as for the large-scale astrophysics and particle physics experiments our groups are contributing to and helps to find solutions for technical problems. The high competence of the workshop is well appreciated also by other institutes of the university or external companies.

http://www.physik.uzh.ch/groups/werkstatt









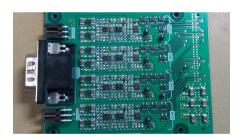
The three photograph are examples for work done in our workshop for external institutes (left: anatomy institute), research groups (middle, group Chang) and education (right).

Electronics Workshop

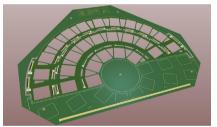
Besides maintenance work for the existing laboratory infrastructure the **electronics workshop** continuously supports the groups of our institute with technical advice, prototypes and new developments for ongoing projects.

Our projects in 2018 included the development of a 4 GHz

preamplifier for fast oscilloscopes, a programmable fast pulse generator with <100ps rise-/fall time, and a SALT128TB testboard for the UT detector of LHCb the design of low-temperature high frequency printed circuit boards, silicon photomultiplier testboards as well as documentation and testing of the FlashCam for CTA.



First prototype boards for the 20 bit, 1.5MS/s ADC for DAMIC-M.



Printed circuit board for power supply and data connections for the silicon sensors for the CMS TEPX detector



Close-up view of a two-dimensional grid of resonant circuits to model lattice band structures.