

Status Update about the PolariX TDS Project

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A collaboration between DESY, PSI and CERN has been established to develop and build an advanced modular X-band transverse deflection structure (TDS) system with the new feature of providing variable polarization of the deflecting force. The RF design of such structure, named Polarizable X-band (PolariX) TDS, has been done at CERN, while the fabrication took place at PSI, following the high-precision tuning-free production process. Bead-pull RF measurements on the prototype cavity were also performed at PSI to verify that the polarization of the dipole fields does not have any rotation along the structure. Finally high power test was performed at CERN and now the TDS is at DESY and has been installed in FLASHForward, where the commissioning of the prototype with electron beam is taking place. We summarize in this poster the status of the project and preliminary comment the outcome of the first beamtime for the PolariX commissioning.

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