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RF Conditioning and First Experiences with the PolariX TDS at PSI

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In 2017, a collaboration between DESY, PSI and CERN was established with the aim of developing and building seven advanced X-Band Transverse Deflection Structure (TDS) with the new feature of variable polarization of the deflecting force. Seven deflectors were produced by PSI of which five were installed in three experiments at DESY, while the remaining two were installed in the ATHOS soft X-ray beamline in SwissFEL, with the goal to provide sub-fs resolution for soft X-ray pulse profiles. Early this year the X-band power source of the TDS for SwissFEL was completed and system commissioning started. This contribution summarizes the first deflection experiments performed.

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Yes

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