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## Outreach Modules for a New Particle Search Using the ATLAS Forward Proton Detector and Higgs Boson Physics

*Friday, 8 July 2022 20:10 (20 minutes)*

We present two modules as part of the Czech Particle Physics Project (CPPP). These are intended as learning tools in masterclasses aimed at high-school students (aged 15 to 18). The first module is dedicated to the detection of an Axion-Like-Particle (ALP) using the ATLAS Forward Proton (AFP) detector. The second module focuses on the reconstruction of the Higgs boson mass using the Higgs boson golden channel with four leptons in the final state. The modules can be accessed at the following link: <http://cern.ch/cppp>

### In-person participation

No

**Primary author:** SOPCZAK, Andre**Presenter:** SOPCZAK, Andre**Session Classification:** Poster Session**Track Classification:** Education and Outreach