

Topic	Experimental particle physics at the CMS experiment at CERN
Topic is suitable for	<ul style="list-style-type: none"> • practical works of bachelor students • graduation thesis of bachelor students • practical works of master students • graduation thesis of master students
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Annotation	CMS (Compact Muon Solenoid) is an universal particle detector at CERN targeting unknown particle physical phenomena and doing many precision measurements in well-established particle physics. CMS is one of a largest particle physics experiments at CERN and in the world. The Tallinn CMS workgrop is focussed on data modelling and analysis at the experiment. Our research group is international and the working language is English, https://hep.kbfi.ee/
Expectation for candidate	Basic understanding in special relativity, skills in programming (C++, Python), some skills in statistics and possibly machine learning

