

**task 5:investigating the sphaleron and mini-black hole production at the LHC and its dependence on the mechanism of EWPT.**

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**Presenters:** BUANES, Trygve (University of Bergen (NO)); Prof. LIPNIACKA, Anna (University of Bergen (NO)); GREFSRUD, Aurora Singstad (University of Bergen (NO)); BUANES, Trygve (Department of Physics and Technology)