

The chapter of forward and diraction physics is an indispensable and always a rich part of the physics menu of any experiment at high-energy accelerators. In last years, a big eort was put to study and estimate the feasibility or a discovery potential of Higgs boson produced in the central exclusive diraction events at LHC. These processes have a chance to become competitive or complementary to the program of the Higgs boson search in standard (non-diraction) processes, in particular in the supersymmetric extension of the Standard model. In this thesis an analysis of the central exclusive production of Higgs boson decaying to two tau leptons is performed, along with investigations of corresponding background processes.