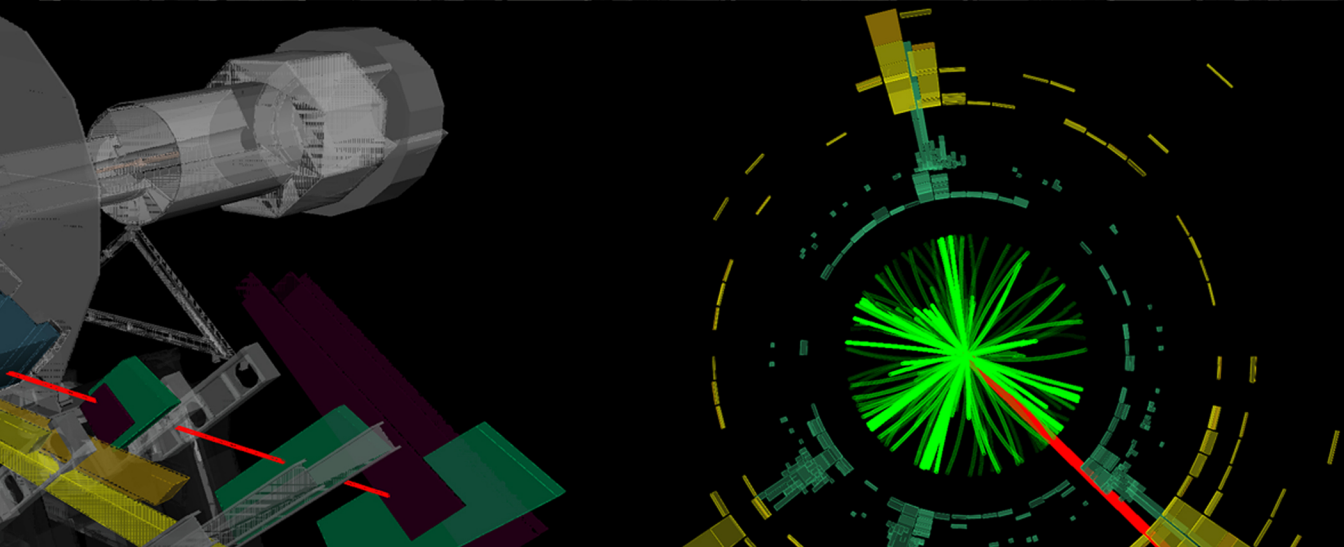
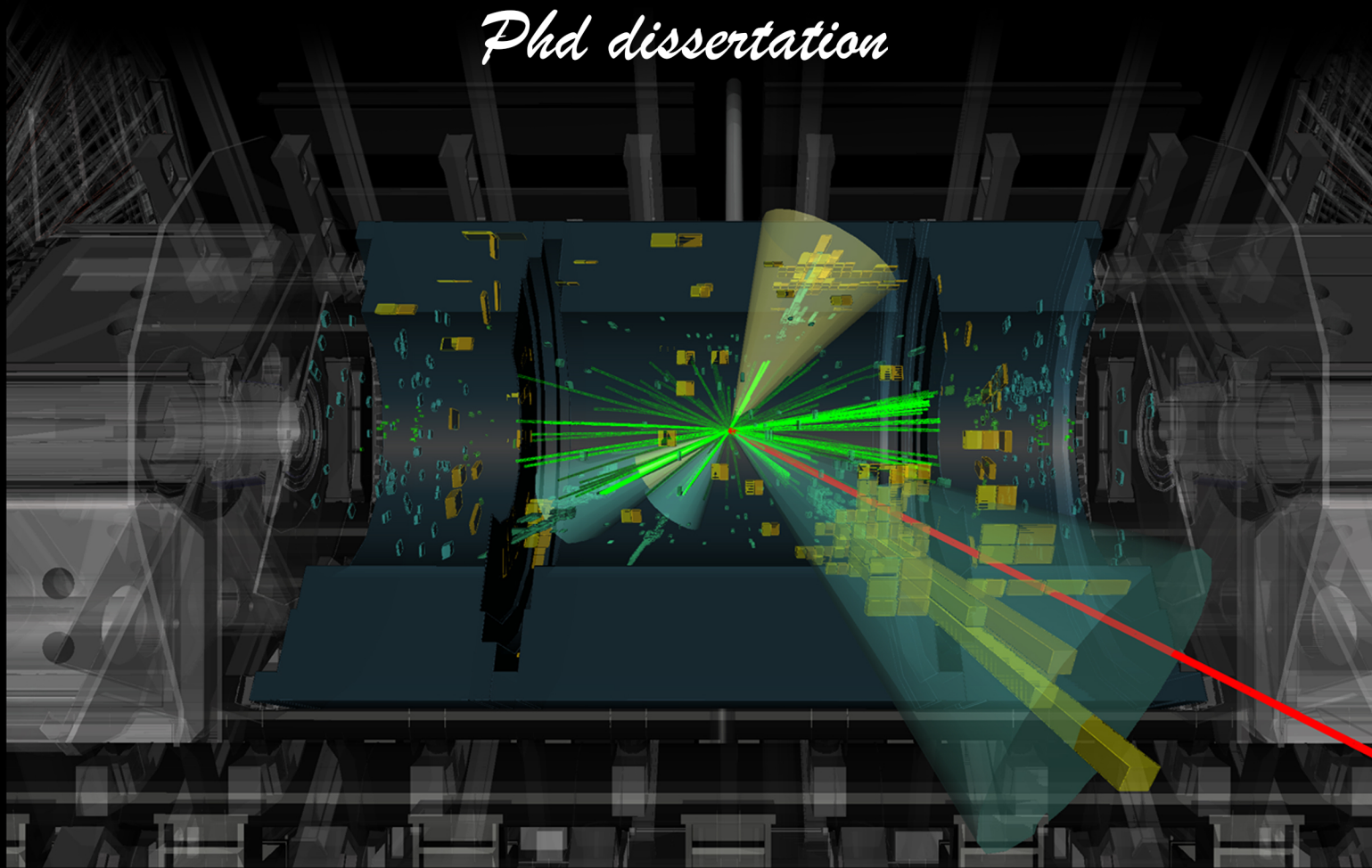


Searches for supersymmetric particles in final states with multiple top and bottom quarks with the ATLAS detector

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Phd dissertation



On the cover: a candidate event passing the criteria of both SR-Gtt-1L-M and SR-Gtt-1L-C of the gluino search discussed in Chapter 7. The transverse mass m_T is 692 GeV and the $m_{\text{eff}}^{\text{incl}}$ is 2.0 TeV. The E_T^{miss} is 539 GeV. The muon track is colored red. The b -tagged and non- b -tagged small-R jets are colored blue and yellow, respectively. The size of the cone of the jet is proportional to its p_T . Tracks with $p_T > 1$ GeV are colored green and their brightness is proportional to their p_T . The LAr and Tile calorimeter cells are colored teal and yellow, respectively, and their length is proportional to their transverse energy. Figure from Ref. [222].