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Mass and event reconstruction under constraint in semi-invisible production at the LHC

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Semi-invisible production at the Large Hadron Collider are often theoretically essential or experimentally convenient signatures originated from a large class of physics models beyond the standard model. Be it light neutrino or some heavy exotic dark matter, observing absence being the signature of their presence, and any study looking into these neutral, stable missing particles remains complex. Here starting from an organizing principle, we present the developments on some of the constrained variables useful for deriving properties and couplings associated with these invisible particles.

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