Higgs boson mass limits in the context of the MSSM (Minimal Supersymmetric Standard Model) with low mass (m_H) scenarios.

- **Observed** and **Expected** limits are shown with respective uncertainties.
- **CMS** data for the process $h, H, A \rightarrow \tau \tau$ with integrated luminosities of $19.7 \text{ fb}^{-1}$ (8 TeV) and $4.9 \text{ fb}^{-1}$ (7 TeV).
- The **MSSM low-m_H scenario** is depicted with a shaded area.
- The **CMS CL_s(MSSM,SM)<0.05** limits are indicated with a red line.
- The mass limits for $m_H \neq 125 \pm 3 \text{ GeV}$ are shown with a dashed line.

### Mass Limits
- **Higgs Boson Mass**
  - $m_H < 125 \pm 3 \text{ GeV}$
- **CL_s(MSSM,SM)<0.05**
  - $\sigma_1 < 19.7 \text{ fb}$
  - $\sigma_2 < 4.9 \text{ fb}$