

ATLAS Preliminary

$m_H = 125.5 \text{ GeV}$

$W, Z H \rightarrow b\bar{b}$

$\sqrt{s} = 7 \text{ TeV}: \int \mathcal{L} dt = 4.7 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 13 \text{ fb}^{-1}$

$H \rightarrow \tau\tau$

$\sqrt{s} = 7 \text{ TeV}: \int \mathcal{L} dt = 4.6 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 13 \text{ fb}^{-1}$

$H \rightarrow WW^{(*)} \rightarrow l\nu l\nu$

$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 13 \text{ fb}^{-1}$

$H \rightarrow \gamma\gamma$

$\sqrt{s} = 7 \text{ TeV}: \int \mathcal{L} dt = 4.8 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 20.7 \text{ fb}^{-1}$

$H \rightarrow ZZ^{(*)} \rightarrow 4l$

$\sqrt{s} = 7 \text{ TeV}: \int \mathcal{L} dt = 4.6 \text{ fb}^{-1}$

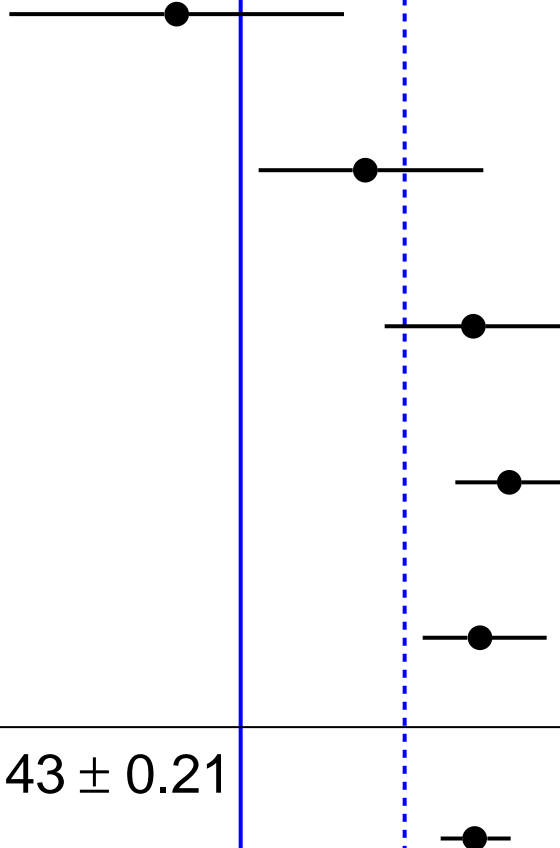
$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 20.7 \text{ fb}^{-1}$

Combined

$\mu = 1.43 \pm 0.21$

$\sqrt{s} = 7 \text{ TeV}: \int \mathcal{L} dt = 4.6 - 4.8 \text{ fb}^{-1}$

$\sqrt{s} = 8 \text{ TeV}: \int \mathcal{L} dt = 13 - 20.7 \text{ fb}^{-1}$



-1

0

+1

Signal strength (μ)