$A^0, H^0 \to \tau\tau$

$\tau_1 \to e\,\nu_e\nu_\tau$ *or* $\mu\,\nu_\mu\nu_\tau$ $\qquad$ $\tau_2 \to$ jet ν_τ

τ–JET IDENTIFICATION

- E_t^{jet} > 40–80 GeV
- $|\eta|^{jet}$ < 2.0, 2.5
- isolation: E_t (0.1<ΔR<0.2) < 3.0 GeV
  E_t (0.1<ΔR<0.4) < 2.5 GeV
- $R_{em.cluster}$ < 0.07
- 1 track with p_t > 2, 30–50 GeV in ΔR=0.3, 0.4

$\tau \to e/\mu$ IDENTIFICATION

- $p_t^{e/\mu}$ > 24, 20–40 GeV
- isolation: no p_t > 1.0, 2.5 GeV in ΔR=0.5, 0.4
  E_t < 1.5 GeV in ΔR=0.5

ν RECONSTRUCTION

- 130° < $\Delta\varphi$ (jet–e/μ)

FURTHER BACKGROUND REDUCTION

- no other jet with p_t > 40, 25 GeV in $|\eta|$<2.4
- no nonisolated μ with p_t > 5 GeV

ATLAS, CMS, both