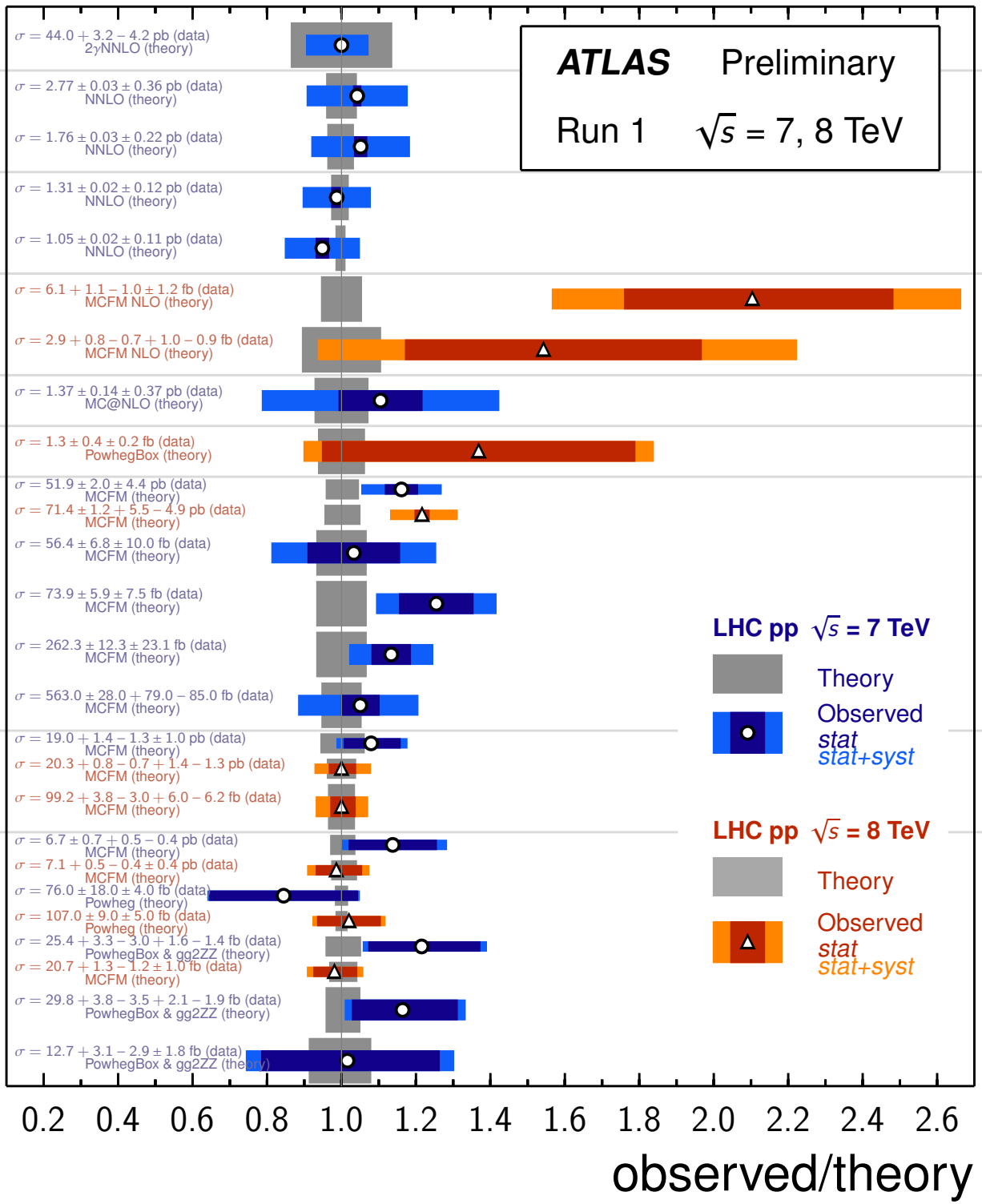
Multiboson Cross Section Measurements

Status: March 2015



	$\int \mathcal{L}\,dt$ [fb^{-1}]	Reference
$\sigma^{fid}(\gamma\gamma)[\Delta R_{\gamma\gamma} > 0.4]$	4.9	JHEP 01, 086 (2013)
$\sigma^{fid}(W\gamma \to \ell\nu\gamma)$	4.6	PRD 87, 112003 (2013) arXiv:1407.1618 [hep-ph]
– $[n_{jet} = 0]$	4.6	PRD 87, 112003 (2013)
$\sigma^{fid}(Z\gamma \to \ell\ell\gamma)$	4.6	PRD 87, 112003 (2013) arXiv:1407.1618 [hep-ph]
– $[n_{jet} = 0]$	4.6	PRD 87, 112003 (2013)
$\sigma^{fid}(W\gamma\gamma \to \ell\nu\gamma\gamma)$	20.3	arXiv:1503.03243 [hep-ex]
– $[n_{jet} = 0]$	20.3	arXiv:1503.03243 [hep-ex]
$\sigma^{fid}(pp \to WV \to \ell\nu qq)$	4.6	JHEP 01, 049 (2015)
$\sigma^{fid}(W^{\pm}W^{\pm}jj)$ EWK	20.3	PRL 113, 141803 (2014)
$\sigma^{total}(pp \to WW)$	4.6	PRD 87, 112001 (2013)
	20.3	ATLAS-CONF-2014-033
– $\sigma^{fid}(WW \to ee)$ $[n_{jet}=0]$	4.6	PRD 87, 112001 (2013)
– $\sigma^{fid}(WW \to \mu\mu)$ $[n_{jet}=0]$	4.6	PRD 87, 112001 (2013)
– $\sigma^{fid}(WW \to e\mu)$ $[n_{jet}=0]$	4.6	PRD 87, 112001 (2013)
– $\sigma^{fid}(WW \to e\mu)$ $[n_{jet}\geq 0]$	4.6	arXiv:1407.0573 [hep-ex]
$\sigma^{total}(pp \to WZ)$	4.6	EPJC 72, 2173 (2012)
	13.0	ATLAS-CONF-2013-021
– $\sigma^{fid}(WZ \to \ell\nu\ell\ell)$	13.0	ATLAS-CONF-2013-021
$\sigma^{total}(pp \to ZZ)$	4.6	JHEP 03, 128 (2013)
	20.3	ATLAS-CONF-2013-020
– $\sigma^{total}(pp \to ZZ \to 4\ell)$	4.5	arXiv:1403.5657 [hep-ex]
	20.3	arXiv:1403.5657 [hep-ex]
– $\sigma^{fid}(ZZ \to 4\ell)$	4.6	JHEP 03, 128 (2013)
	20.3	ATLAS-CONF-2013-020
– $\sigma^{fid}(ZZ^* \to 4\ell)$	4.6	JHEP 03, 128 (2013)
– $\sigma^{fid}(ZZ^* \to \ell\ell\nu\nu)$	4.6	JHEP 03, 128 (2013)