



Fig.1: Schematic representation of AGN wind interaction with the interstellar medium

Fig.2: TS profile of the stacked sample of 11 UFOS. TS is related to significance roughly as $n_{\sigma} \sim \sqrt{TS}$

Gaspari et al. 2020, Nat. Astr., 4, 10 Laha et al. 2020, Nat Astr., 5, 13 Predehl et al. 2020, Natue, 588, 227

bolometric luminosity

Tombesi et al. 2010, A&A, 521, 57 Tombesi et al. 2012, MNRAS, 422, 1 Paliya et al. 2019, ApJ, 882, 3

Fig.3: Correlation between the gamma-ray luminosity and AGN

the galaxy.

Fig.4: Evolution of the gamma-ray luminosity and energy deposited in cosmic rays as the forward shock moves through