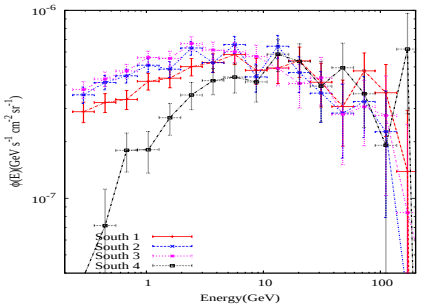
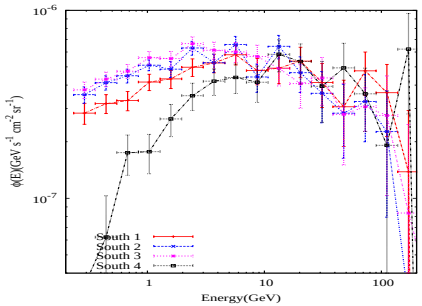
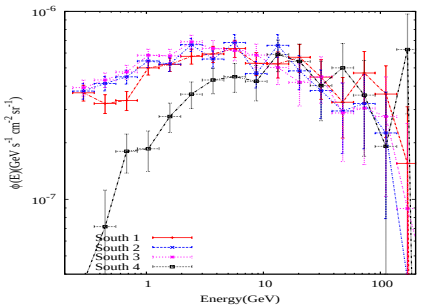


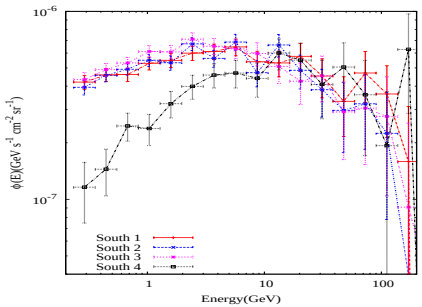
(a) Lorimer distribution (Lorimer et al. 2006), $z_{\rm h} = 4, R_{\rm h} = 20, T_{\rm S} = 150$, and $E(B-V)_{\rm cut} = 5$



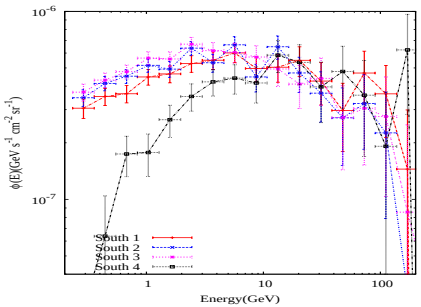
(b) Lorimer distribution, $z_{\rm h} = 4, R_{\rm h} = 30, T_{\rm S} = 150$, and $E(B-V)_{\rm cut} = 2$



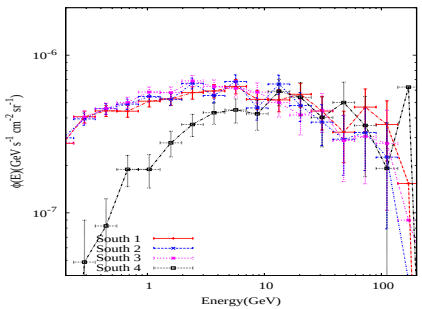
(c) SNR distribution (Case & Bhattacharya 1998), $z_{\rm h} = 6, R_{\rm h} = 20, T_{\rm S} = 150$, and $E(B-V)_{\rm cut} = 2$



(d) SNR distribution, $z_{\rm h} = 4, R_{\rm h} = 20, T_{\rm S} = 100\,000$, and $E(B-V)_{\rm cut} = 2$



(e) Yusifov distribution (Yusifov & Küçük 2004), $z_{\rm h} = 6, R_{\rm h} = 30, T_{\rm S} = 150$, and $E(B-V)_{\rm cut} = 5$



(f) OBstars distribution (Bronfman et al. 2000), $z_{\rm h} = 4, R_{\rm h} = 20, T_{\rm S} = 150$, and $E(B-V)_{\rm cut} = 2$