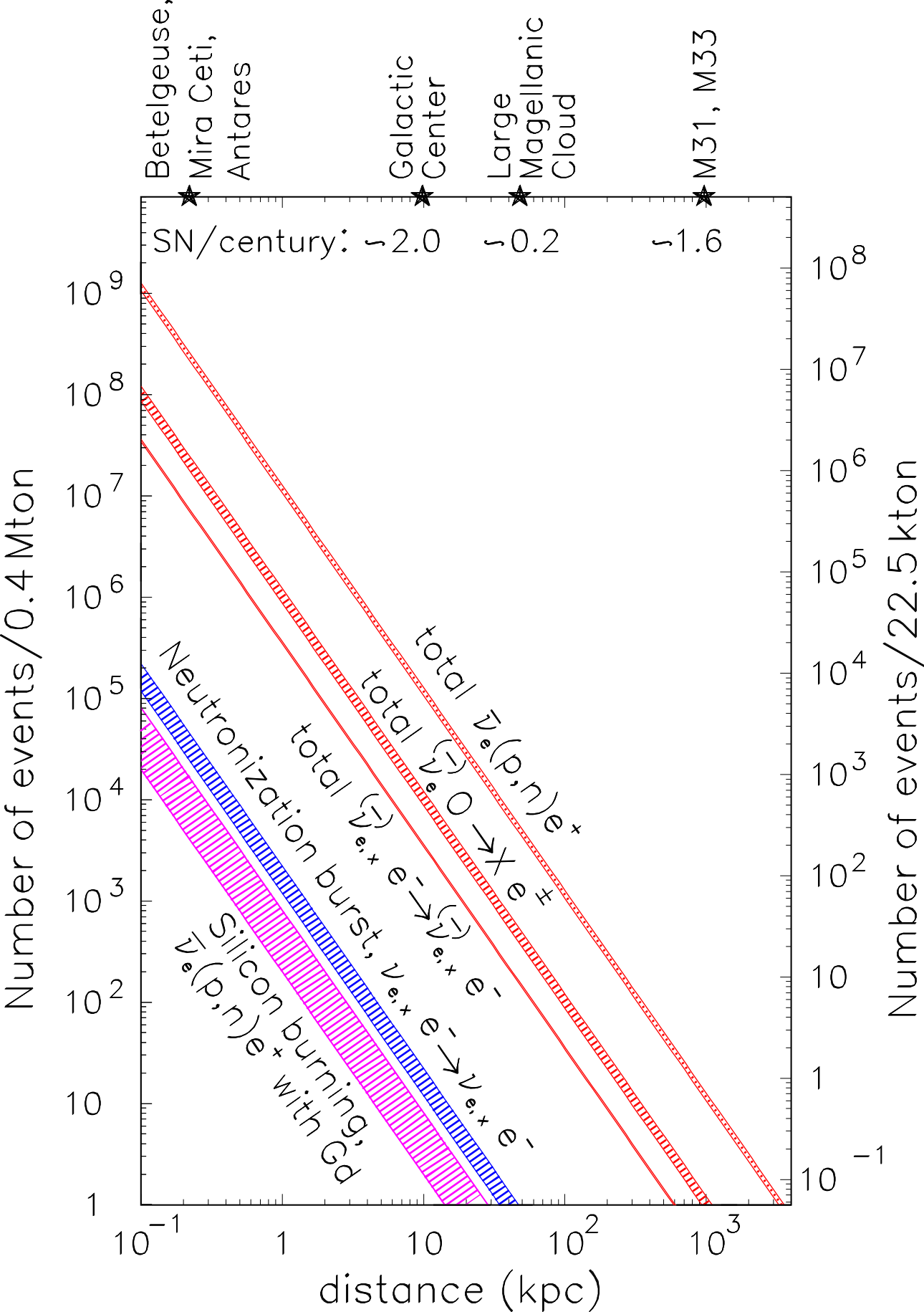
Betelgeuse,
Mira Ceti,
Antares
Galactic
Center
Large
Magellanic
Cloud
M31, M33
SN/century: ~2.0 ~0.2 ~1.6
total $\bar{\nu}_e(p,n)e^+$
total $(\bar{\nu})_e$ O → X $e^\pm$
total $(\bar{\nu})_{e,x}$ e^- → $(\bar{\nu})_{e,x}$ e^-
Neutronization burst, $\nu_{e,x}$ e^- → $\nu_{e,x}$ e^-
Silicon burning,
$\bar{\nu}_e(p,n)e^+$ with Gd
Number of events/0.4 Mton
Number of events/22.5 kton
distance (kpc)