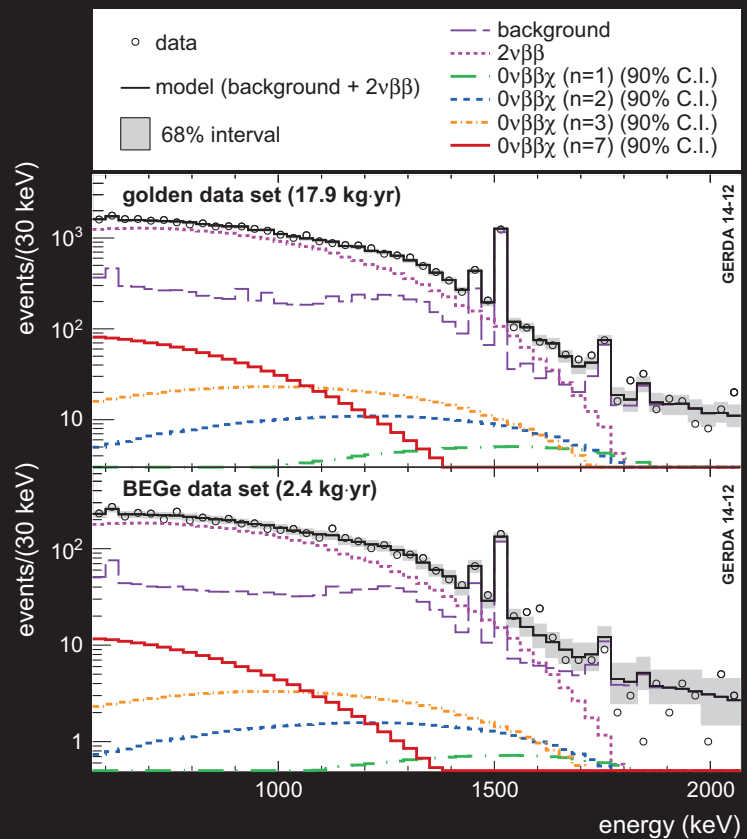




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Particles and Fields



Summed electron energy spectra for the GERDA phase I data sets. The spectra are well described by the contributions of $2\nu\beta\beta$ decay plus background. Expected contributions from single or double Majoron emission in $0\nu\beta\beta\chi$ decay, corresponding to various spectral indices n are also shown. The data place lower limits of $\sim 10^{23}$ yr on the half-lives of such processes. From GERDA Collaboration: Results on $\beta\beta$ decay with emission of two neutrinos or Majorons in ^{76}Ge from GERDA Phase I.