



S1: $^{210}\text{Pb}_{\text{xs}}$ and ^{137}Cs profiles in AMD14-Kane2b box core (circles). $^{210}\text{Pb}_{\text{xs}}$ data points in the top core of the AMD14-Kane2b gravity core have been shifted to obtain the best correspondence of the plots, yielding a material loss of 4 cm on the top of the gravity core.