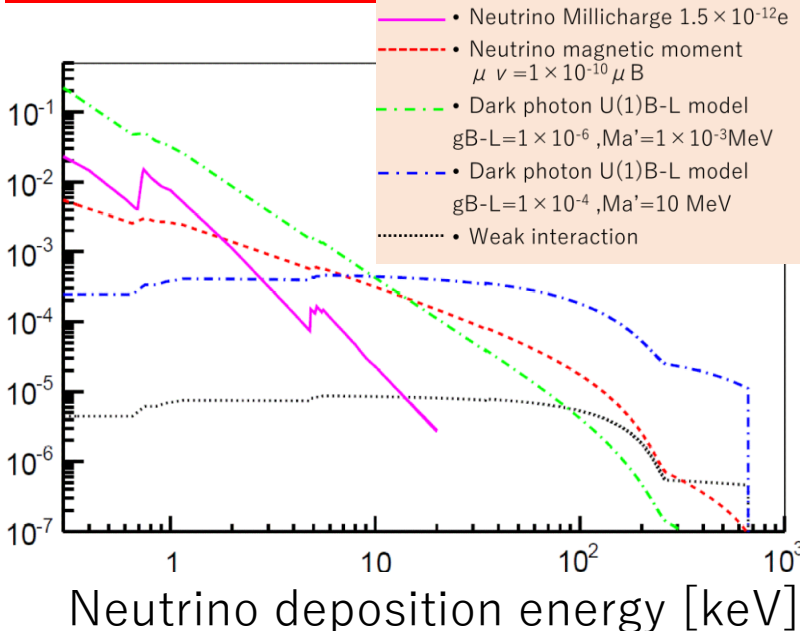
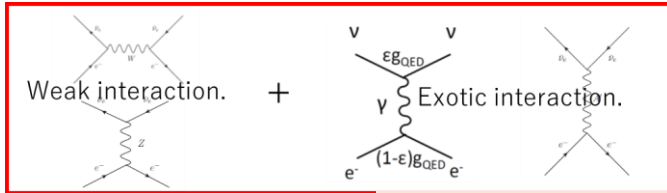


Search for exotic neutrino interactions by XMASS-I detector

Hiroshi Ogawa (CST, Nihon University, Japan) for XMASS collaboration

- Exotic neutrino interaction by expanding of standard model allows the increasing of the event in low energy region \Rightarrow **More advantage in DM detector with low threshold.**
- Search for exotic neutrino interactions with solar neutrinos and electrons in XMASS-I LXe by bellows :
 - Millicharge, magnetic moment and dark photon via $U(1)_{B-L}$
- No significant signals were observed, so upper limits were estimated



XMASS: single phase LXe
 Site : Kamioka
 Observatory, Japan
 832kg active volume LXe &
 2inch PMT x 642

