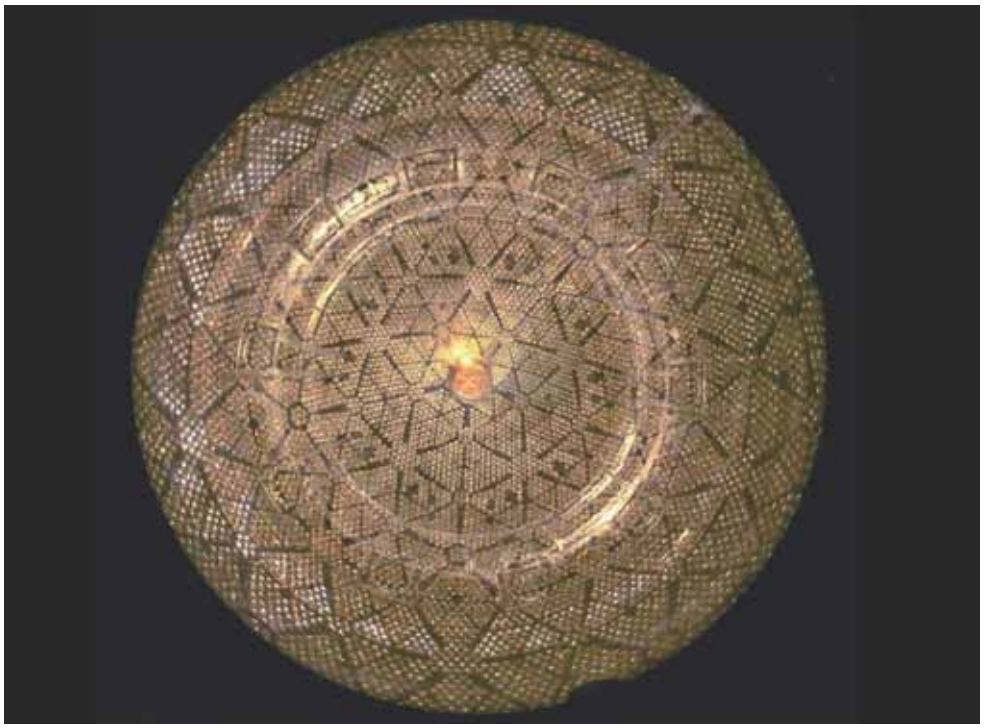
SNO and Future Solar Neutrino Experiments



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Future Solar Neutrino Experiments (Beyond those already in operation)

pep/CNO	Medium	Status
SNO+	780 kg LAB Liq scintillator	Construction, start 2013
Kamland-2	780 lb Liq Scintillator	Following KamLAND-Zen

For pp, ^{7}Be neutrinos, measuring CC plus ES could extract electron and total neutrino fluxes

pp via ES		
XMASS	20 tons Liq Xe	835 kg since 2010 for ββ
CLEAN	50 tons Liq Ne	MiniClean (500 kg) start 2013
P, ^{7}Be via CC		
LENS	10 tons ^{115}In	μLENS under development
MOON	3 tons ^{100}Mo	R&D in progress
IPNOS	^{115}In	R&D in progress
MEGAPROJECTS	Threshold defines: ^{8}B + ?	
HyperK, MEMPHYS	Megaton Water Cerenkov	
LBNE, GLACIER	50 to 100 kTon Liquid Ar	
LENA	50 kTon Liq Scintillator	

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