

# Neutrinos

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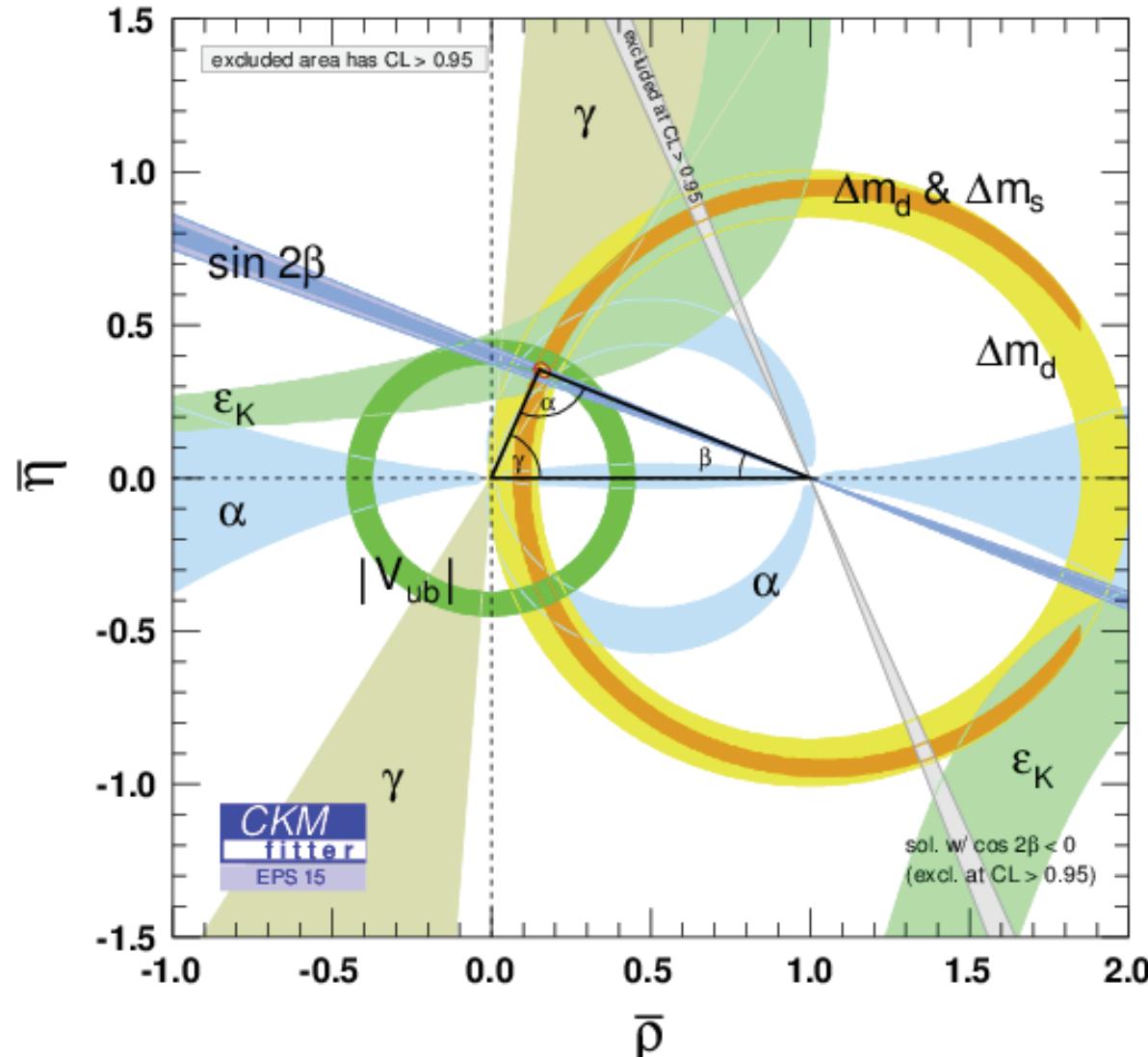
Particle Physics  
Summer 2016



Cluster of Excellence Precision Physics,  
Fundamental Interactions and Structure of Matter

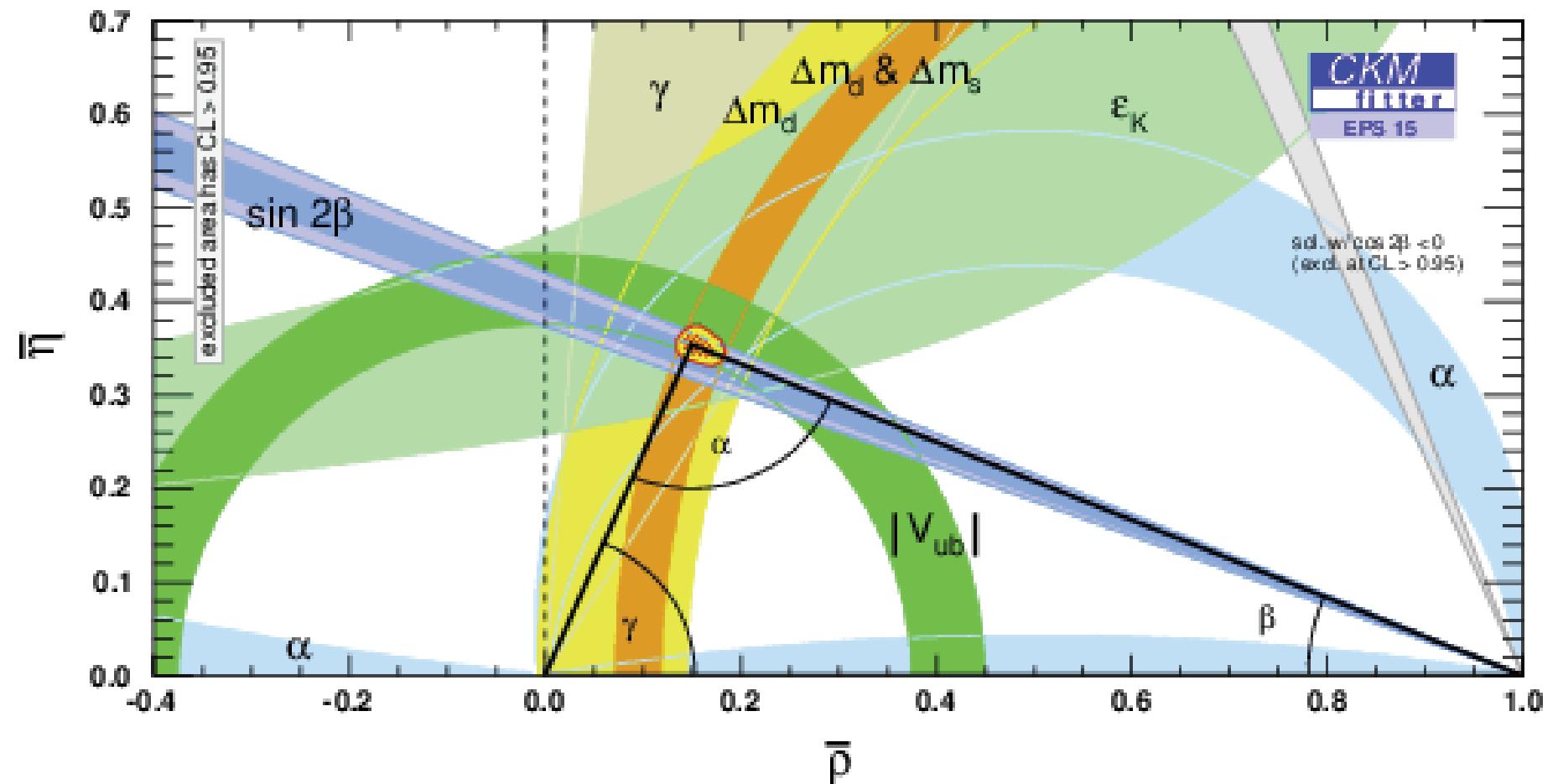


# Unitarity triangle



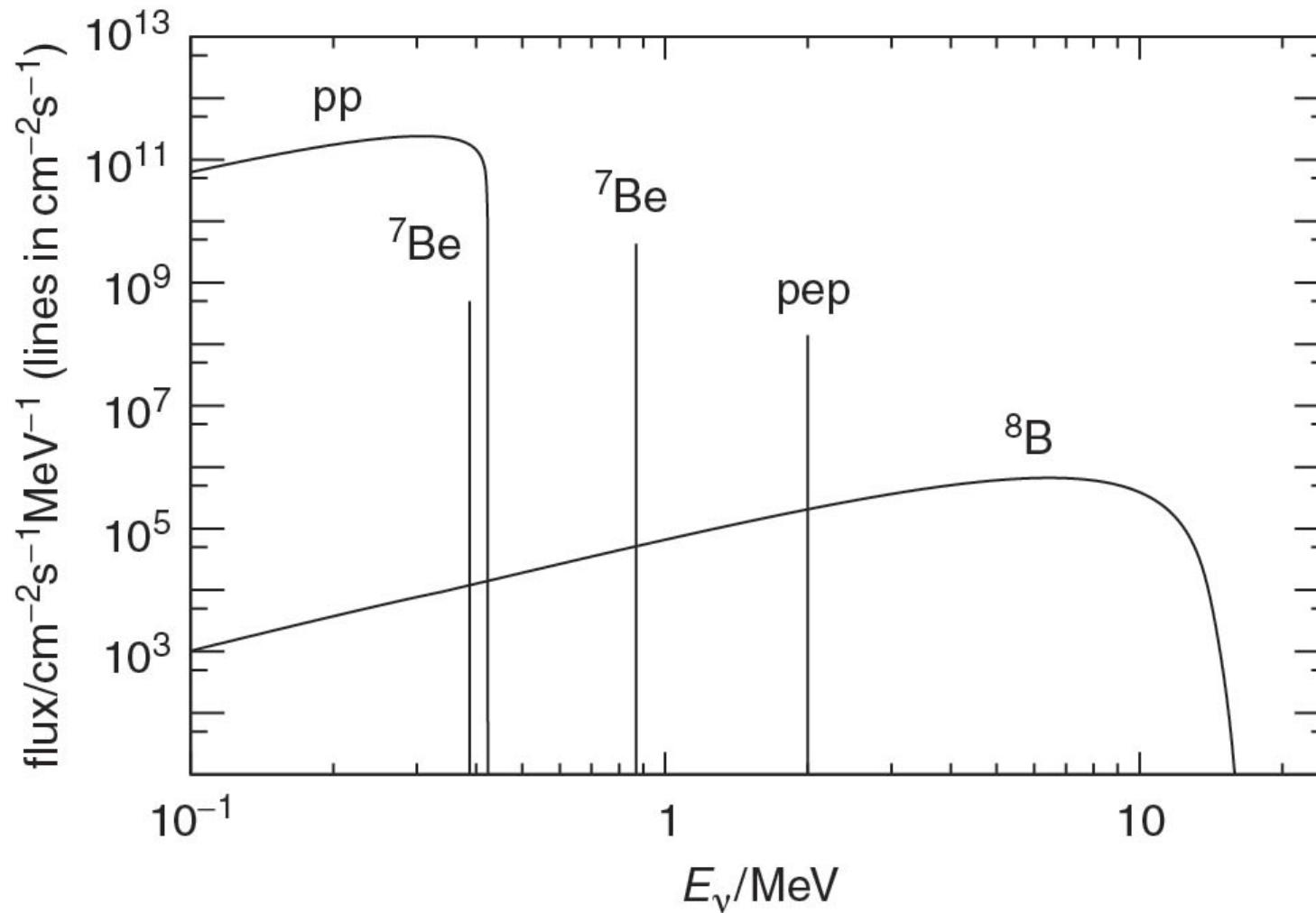


# Unitarity triangle





# Solar neutrinos



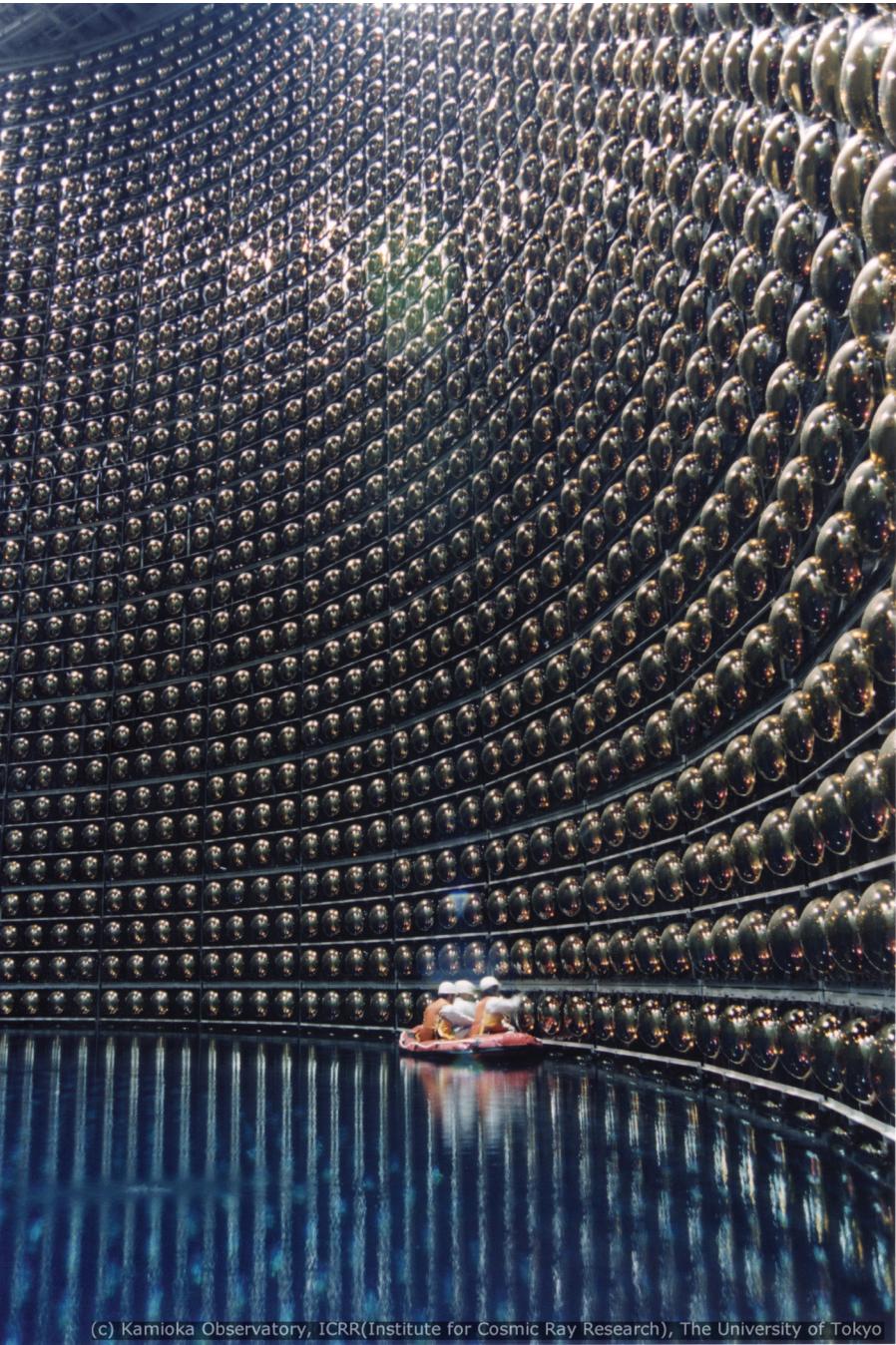


# Ray Davies/Homestake

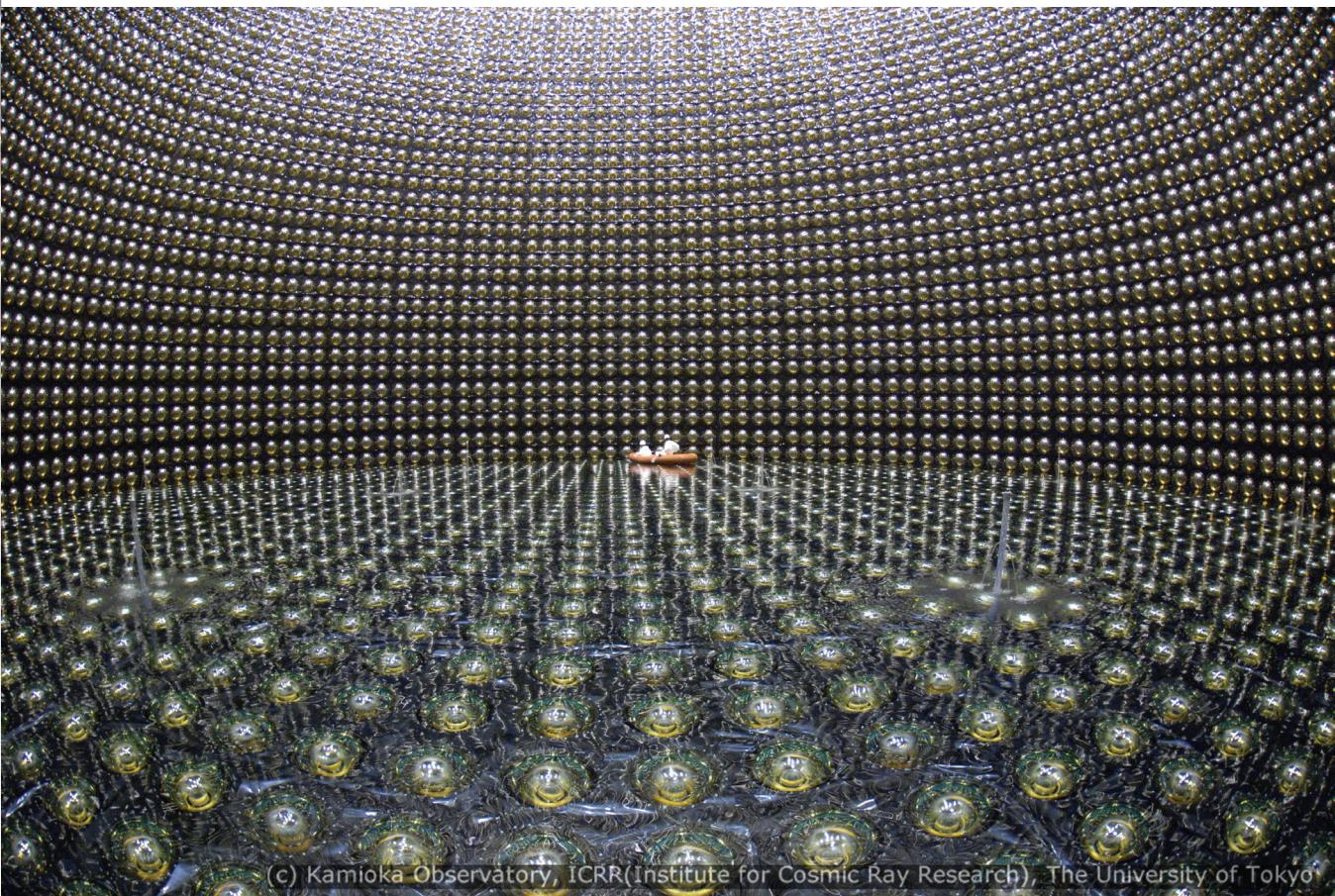




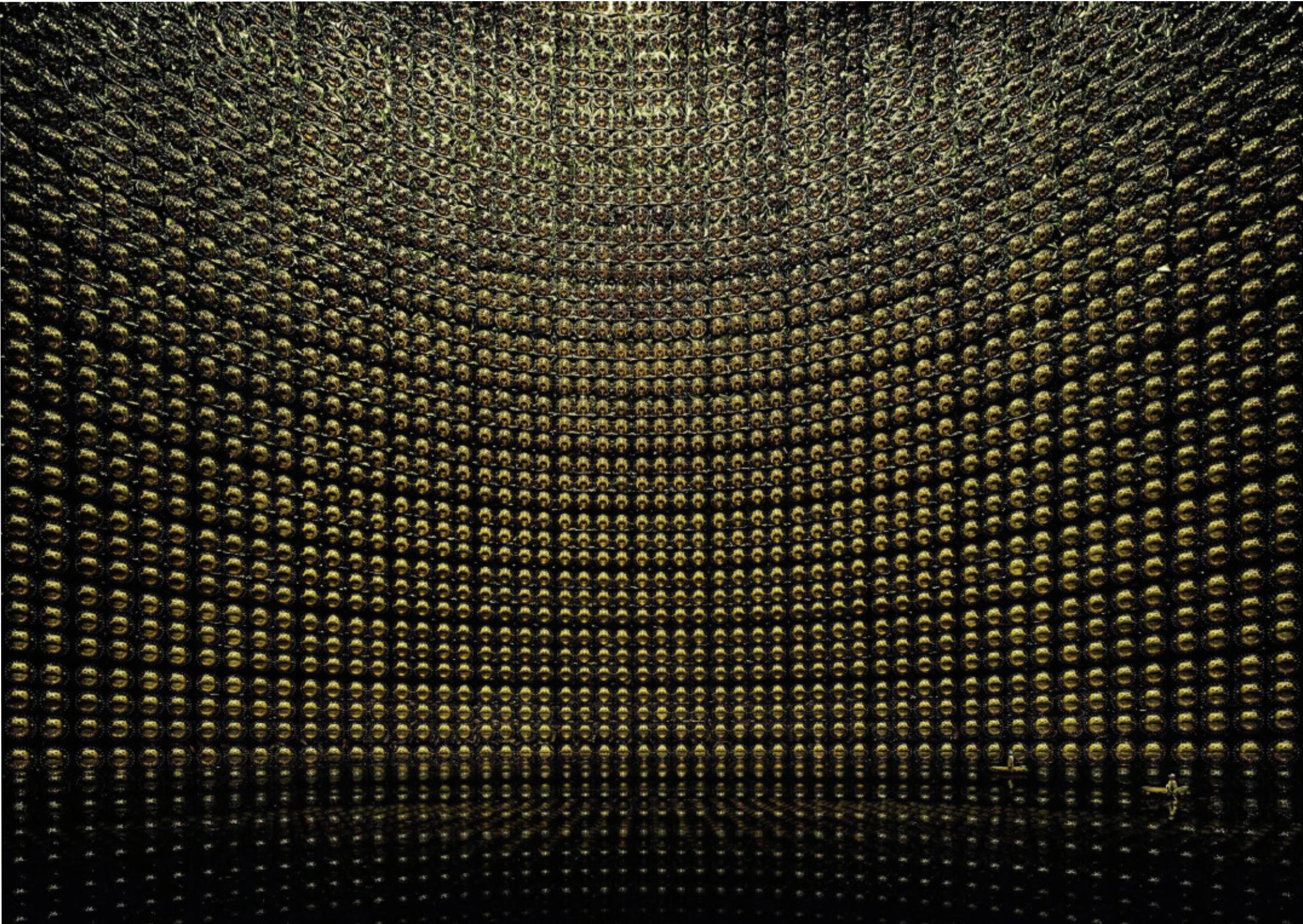
# Super Kamiokande



(c) Kamioka Observatory, ICRR(Institute for Cosmic Ray Research), The University of Tokyo



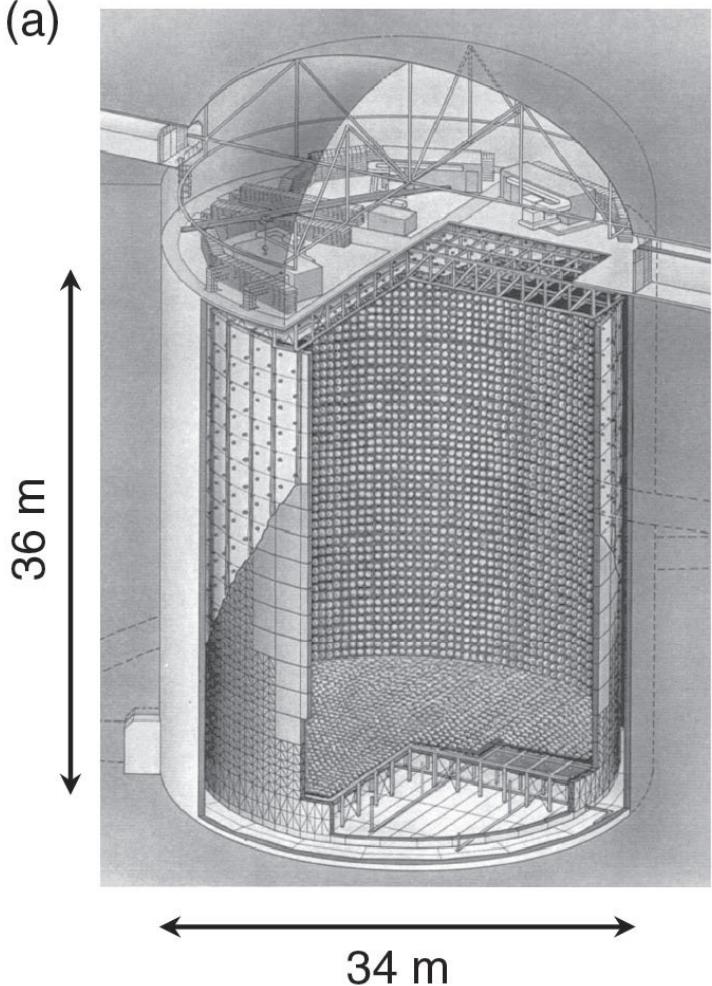
(c) Kamioka Observatory, ICRR(Institute for Cosmic Ray Research), The University of Tokyo



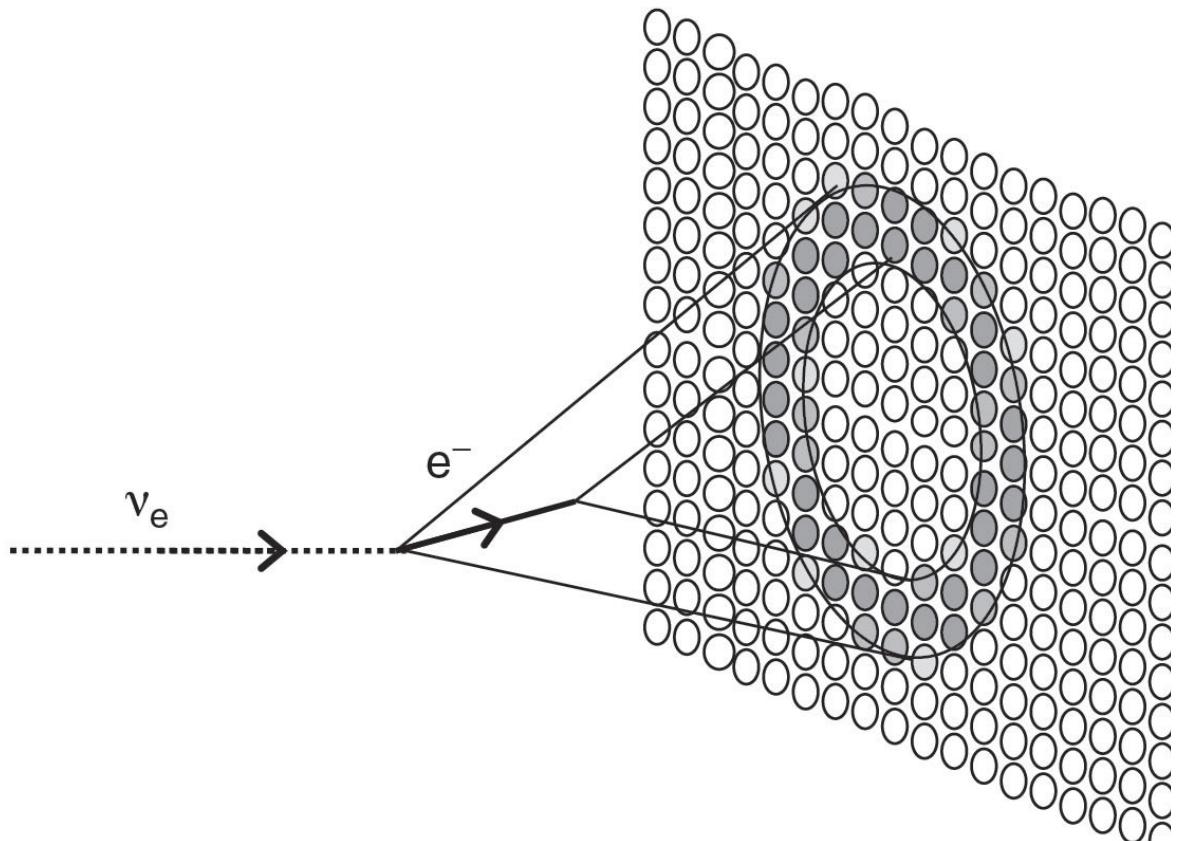


# Super Kamiokande

(a)

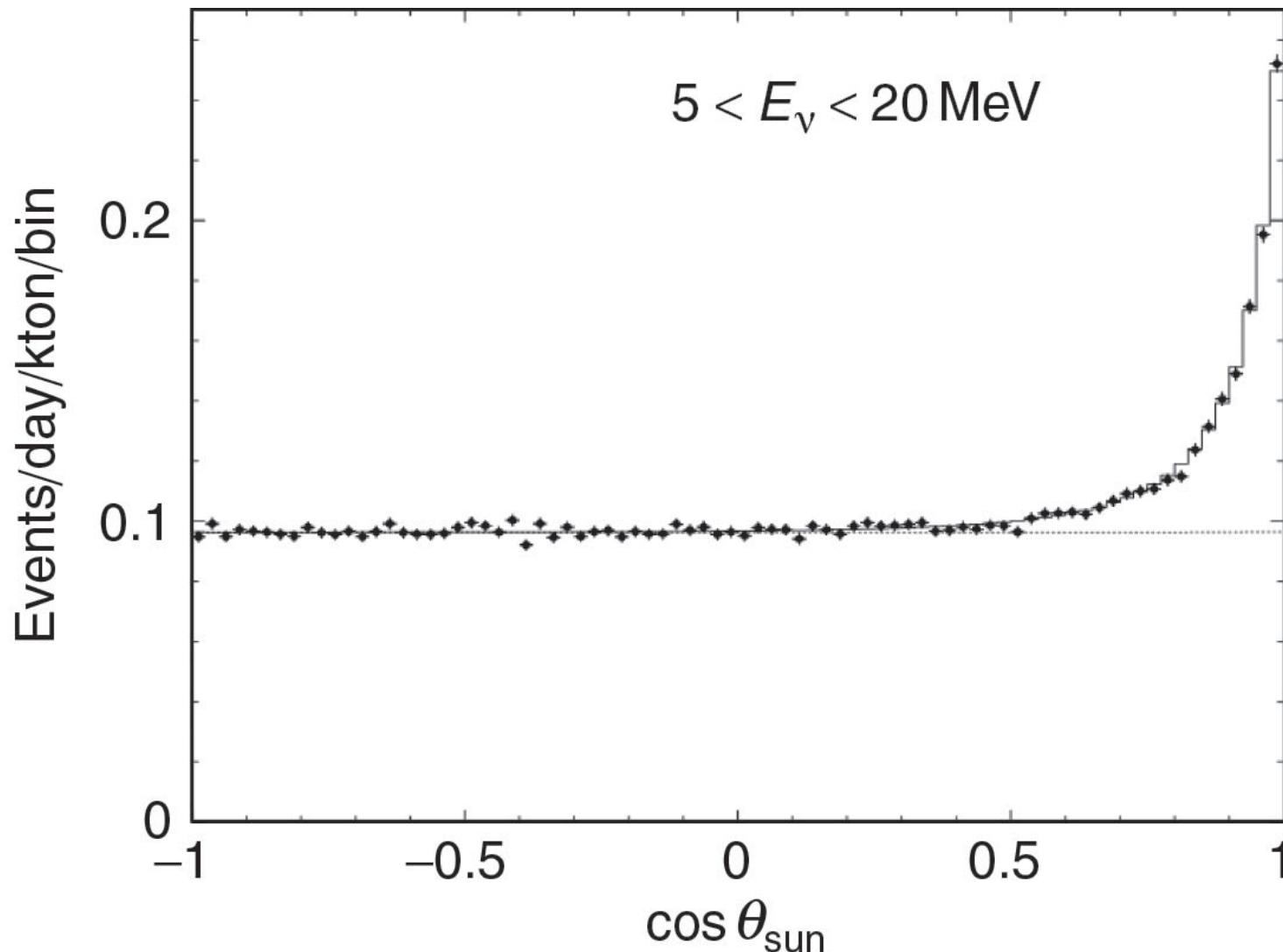


(b)



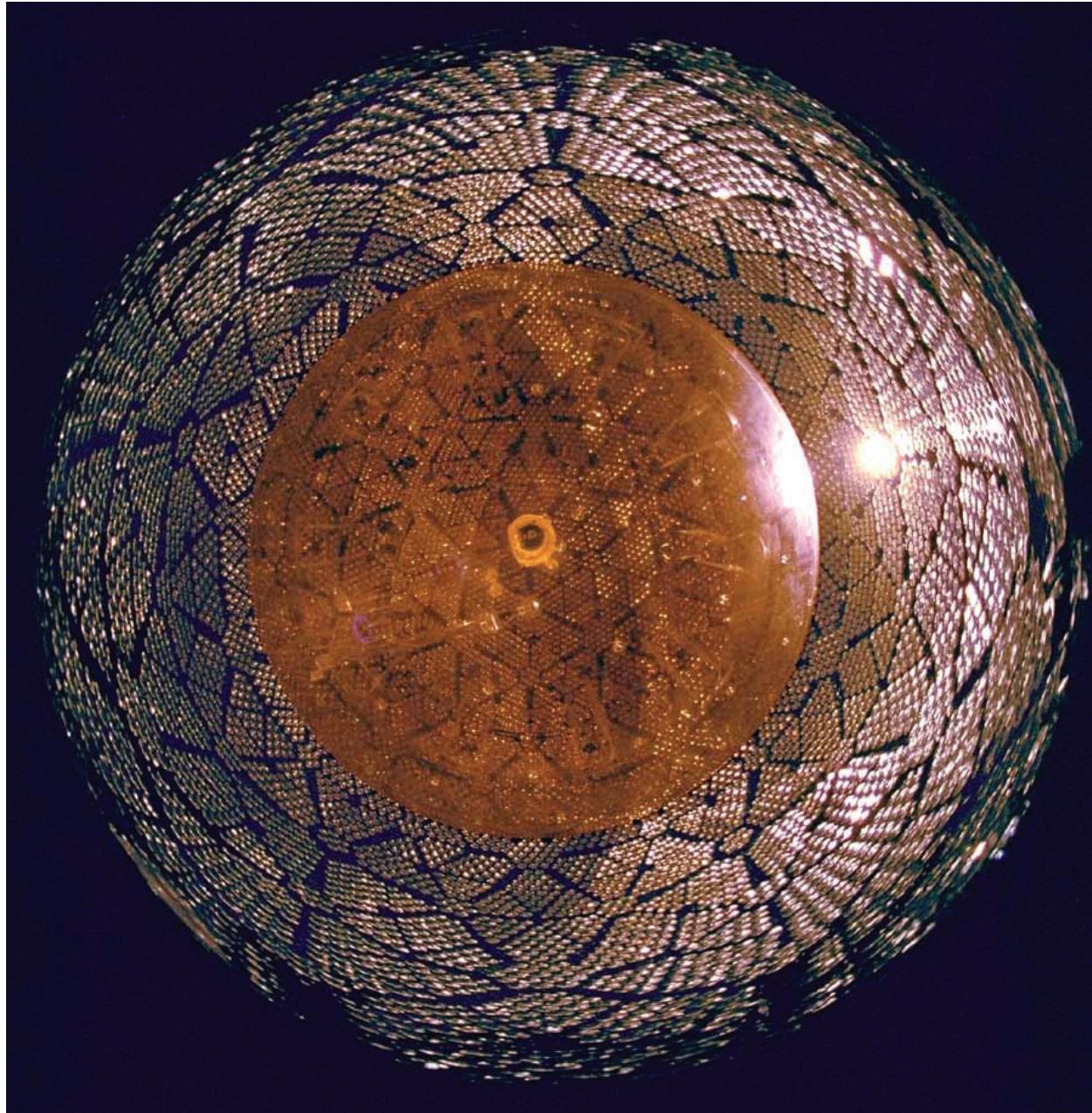


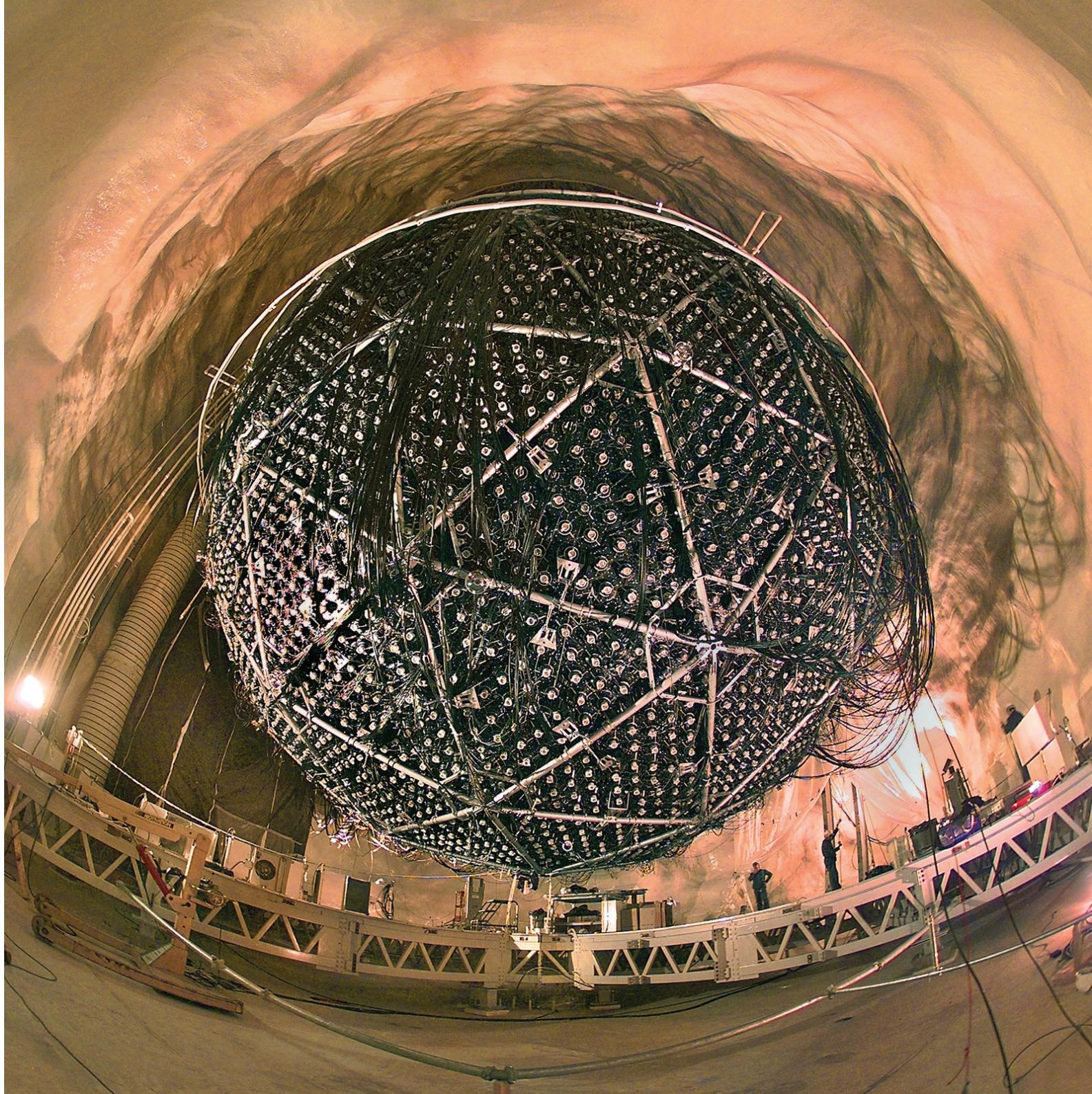
# Super Kamiokande





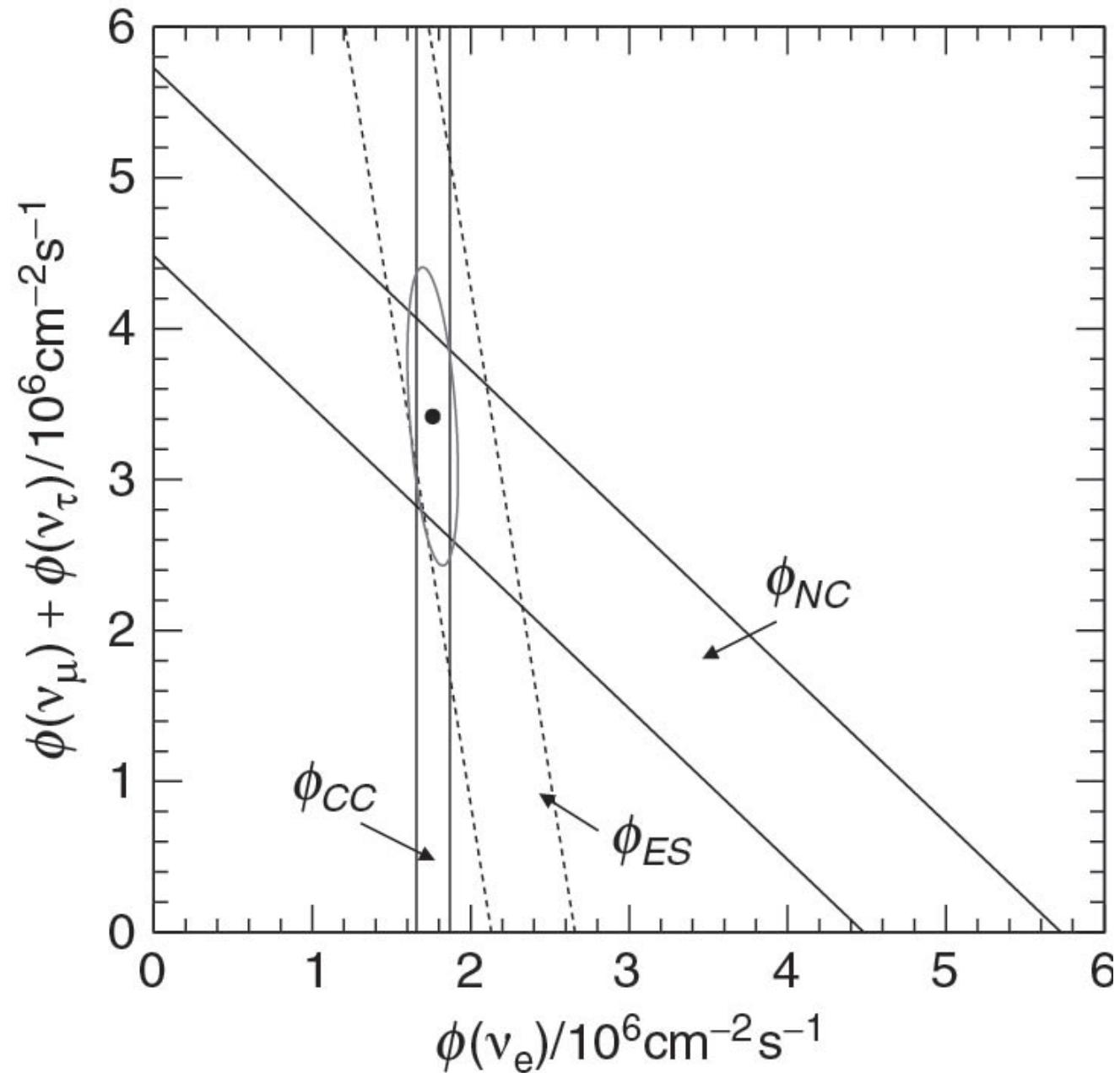
SNO







SNO





# Daya Bay



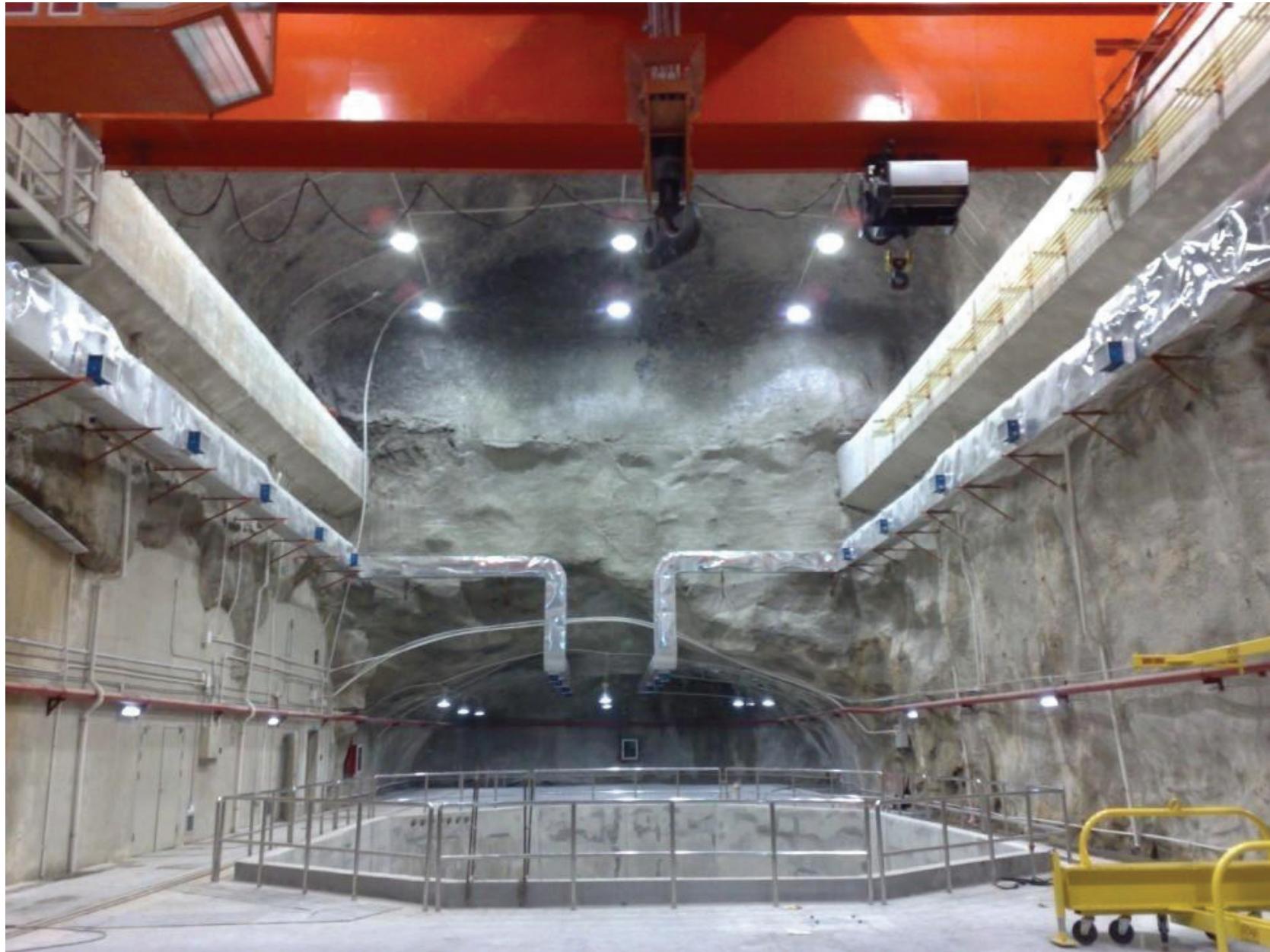


Daya Bay





# Daya Bay





Daya Bay



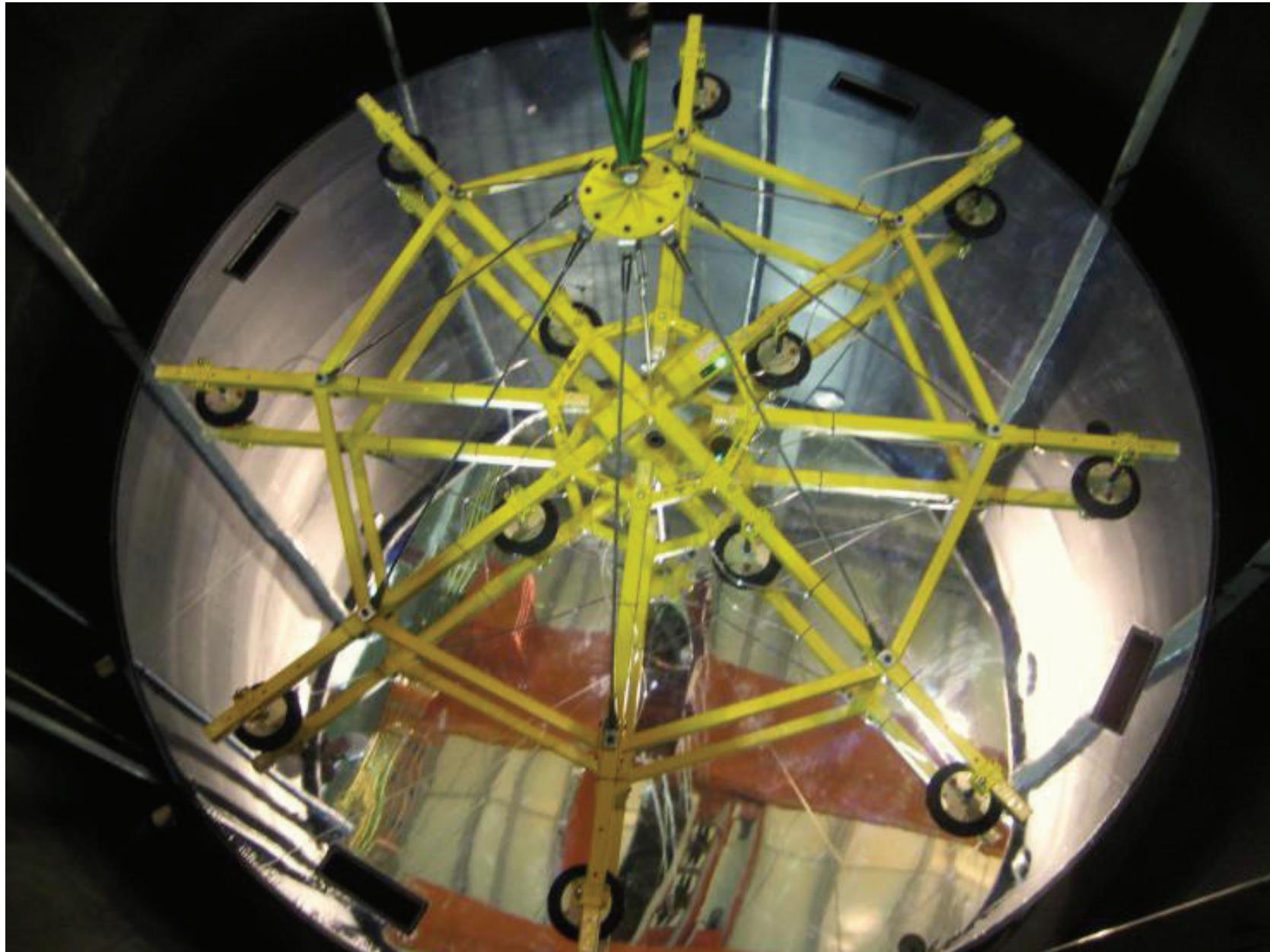


Daya Bay



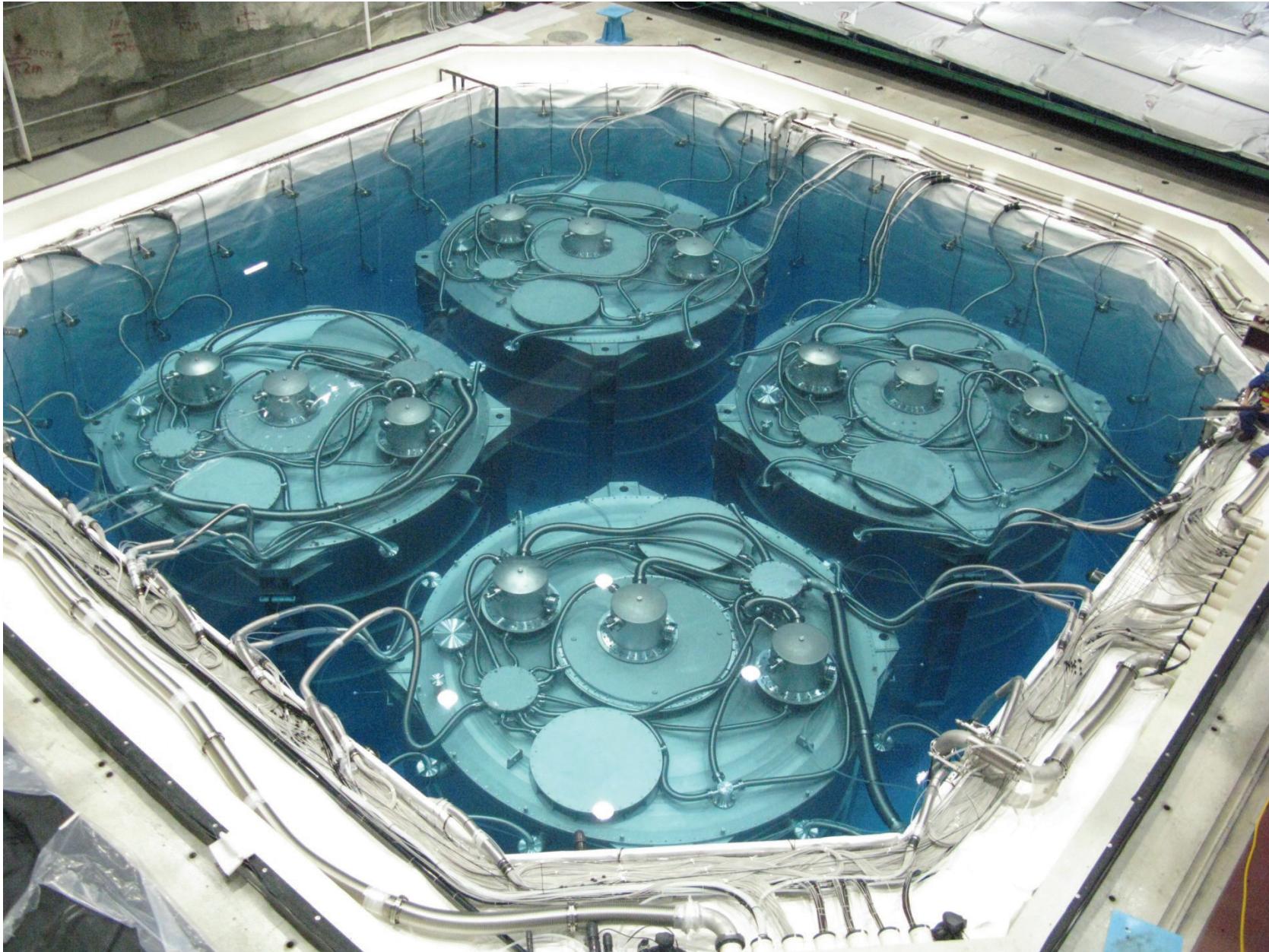


Daya Bay



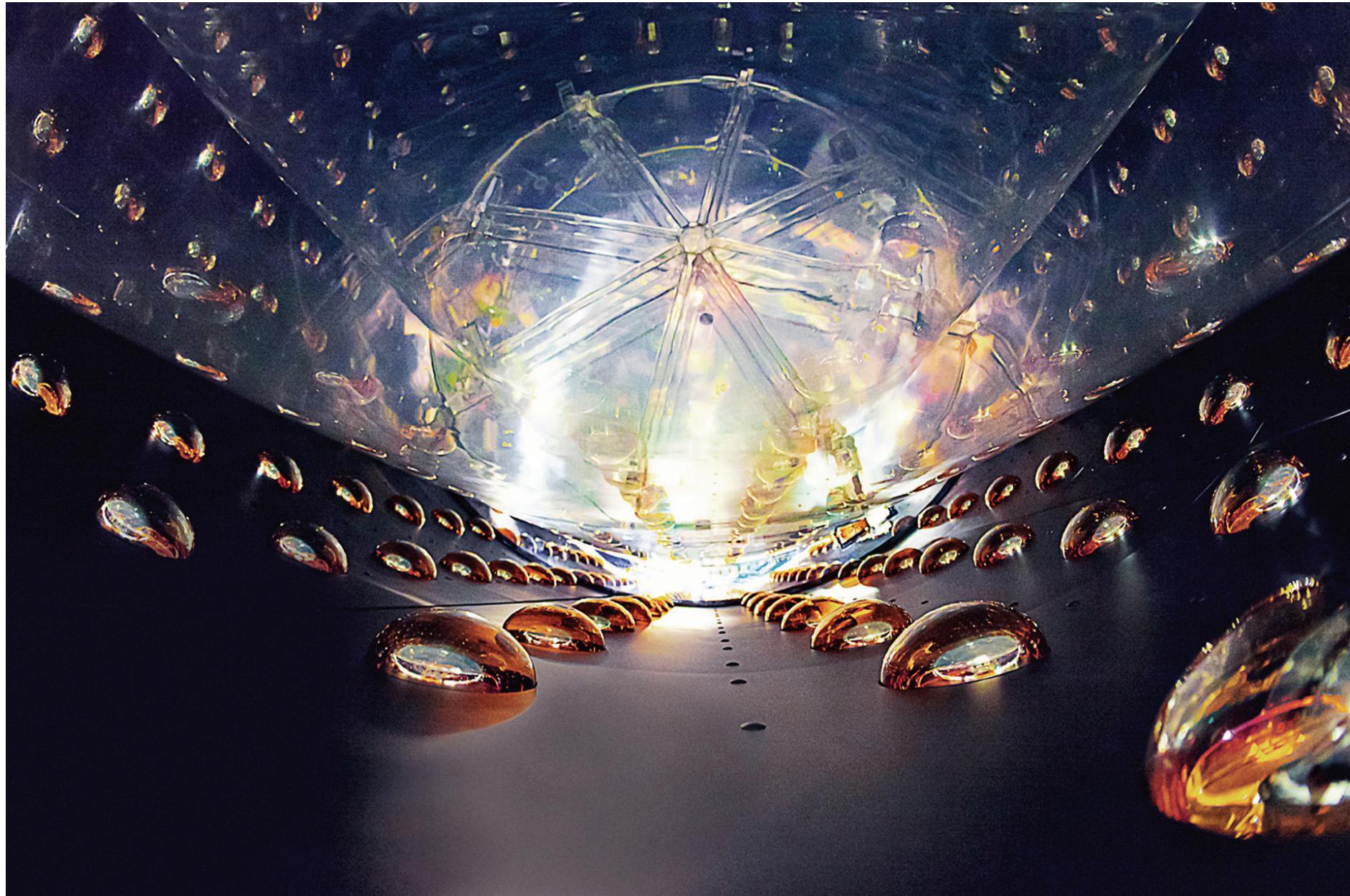


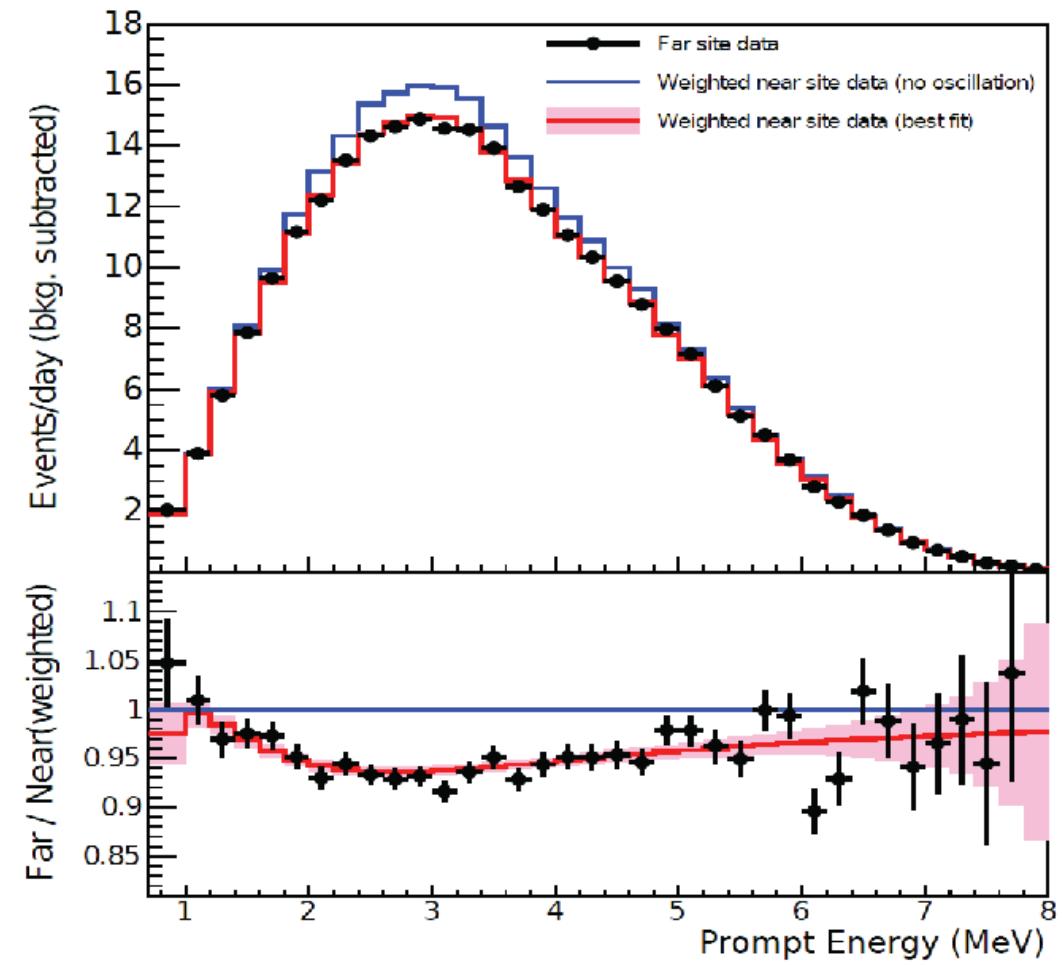
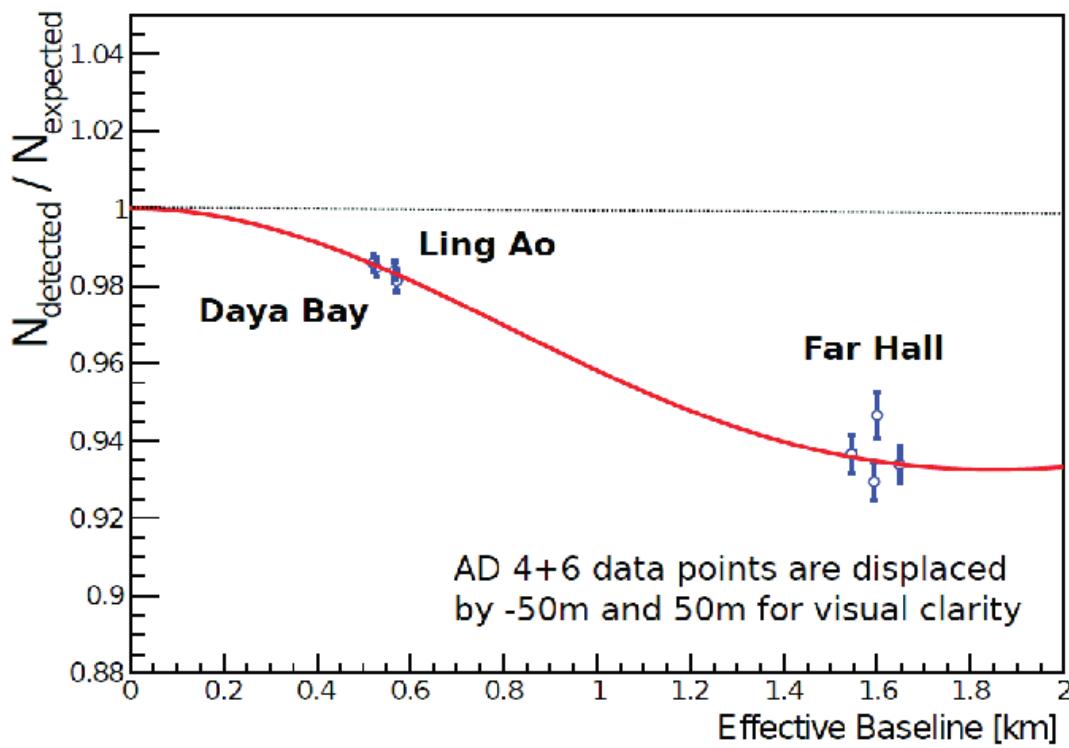
# Daya Bay





Daya Bay







# Neutrino hierarchy

