



Atmospheric Background Reduction using CNNs in DSNB Searches at SK-Gd

— **Soniya Samani** —

on behalf of the Super Kamiokande Collaboration

NuPhys2023: Prospects in Neutrino Physics

18th of December 2023

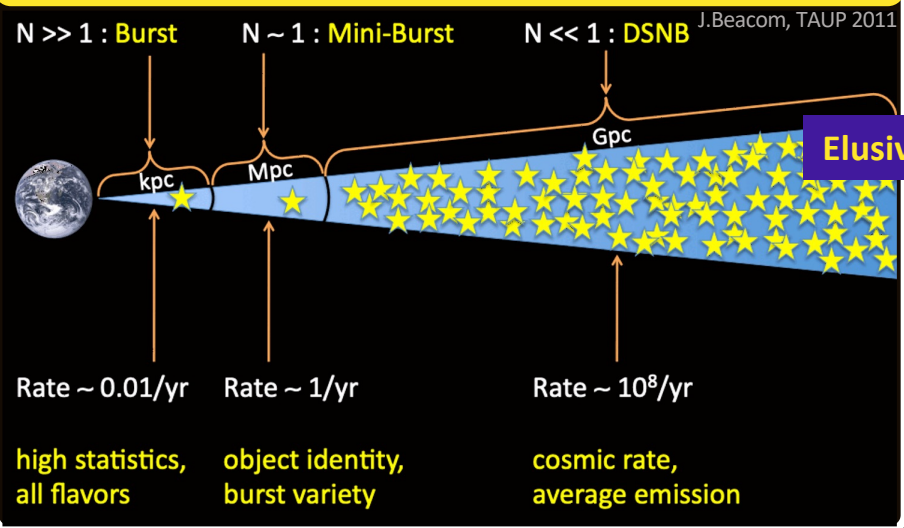
Poster Talk!



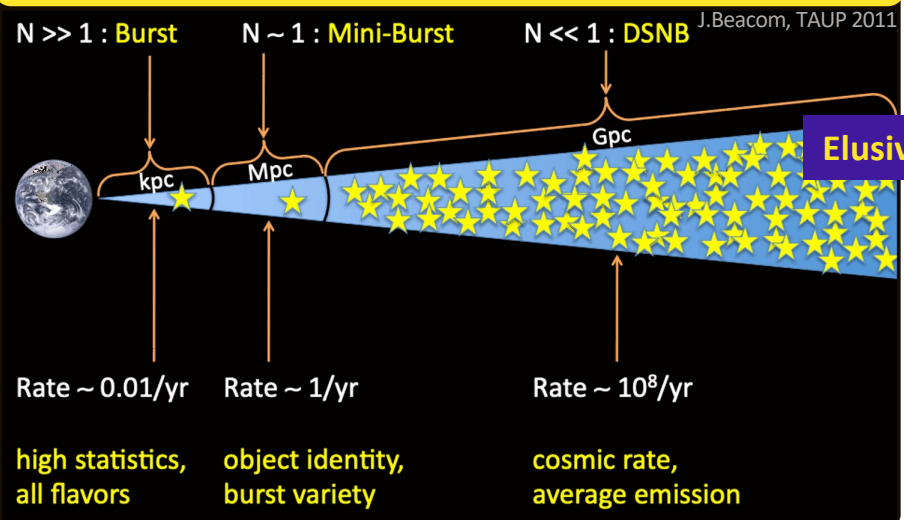
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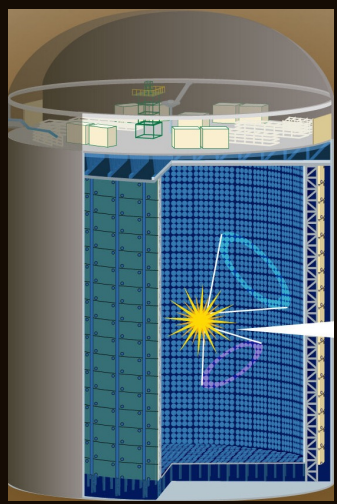
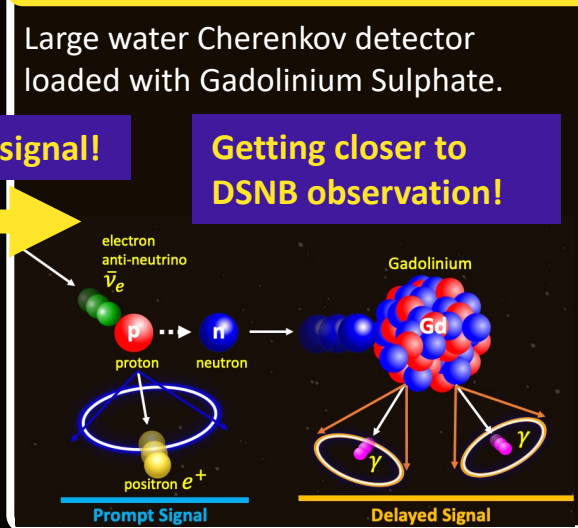
Diffuse Supernova Neutrino Background



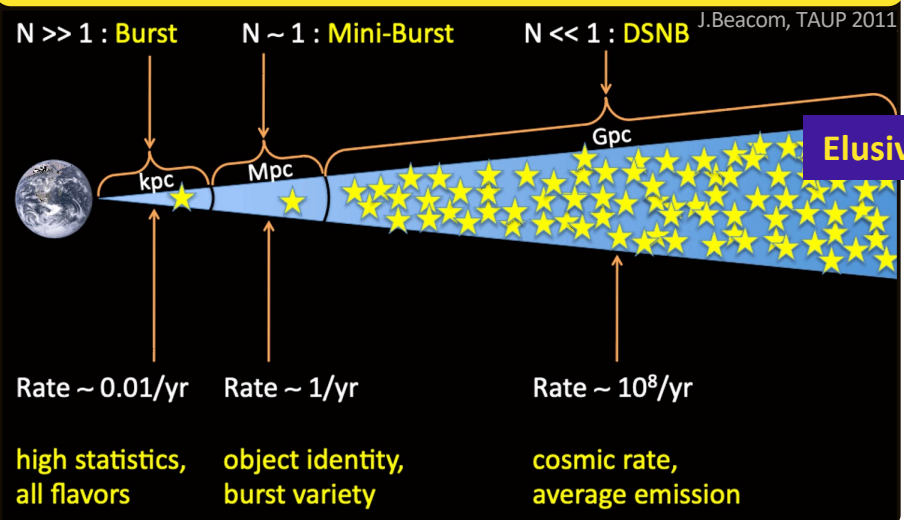
Diffuse Supernova Neutrino Background



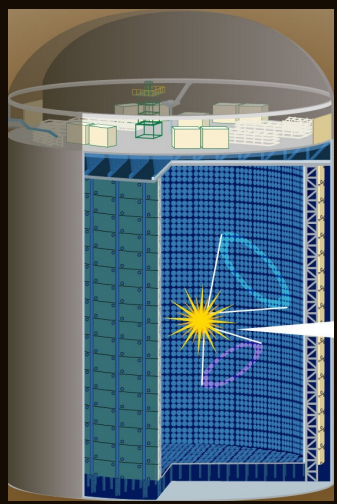
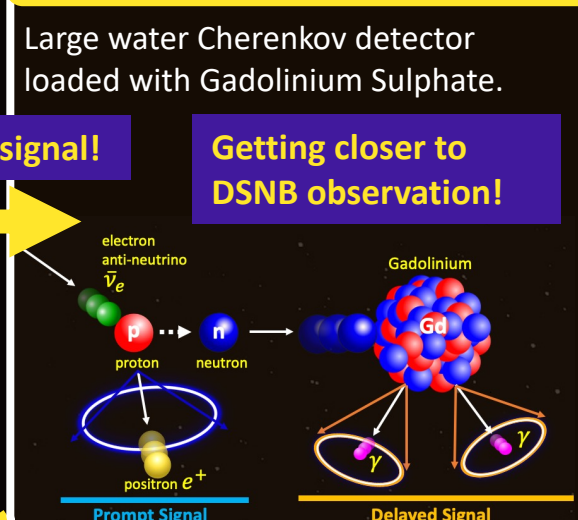
Super-Kamiokande with Gd



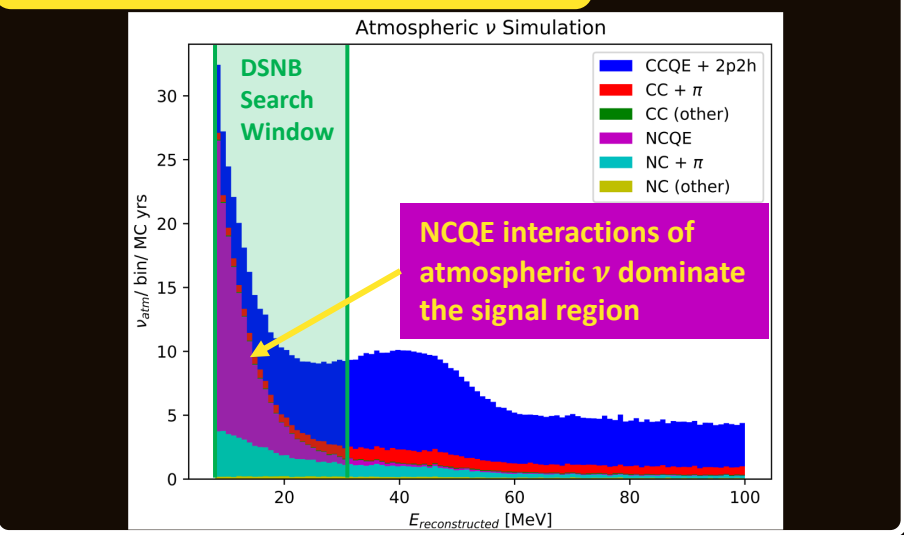
Diffuse Supernova Neutrino Background



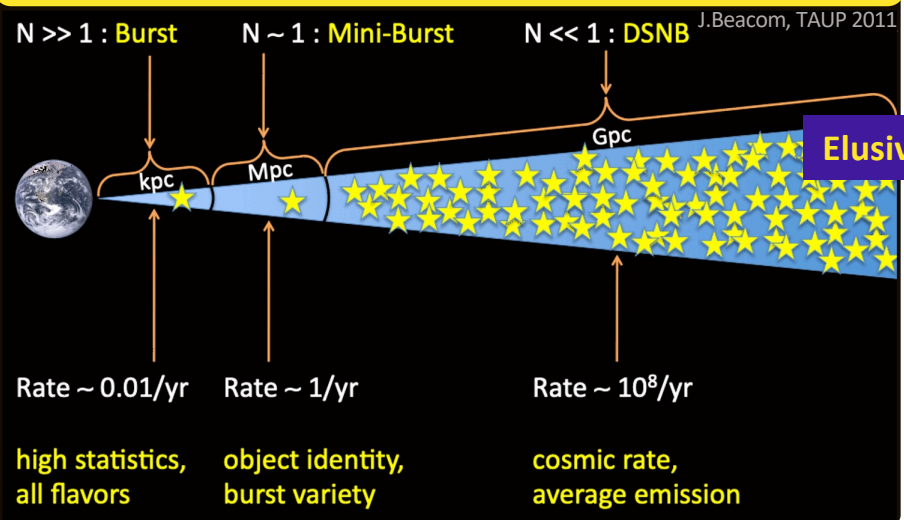
Super-Kamiokande with Gd



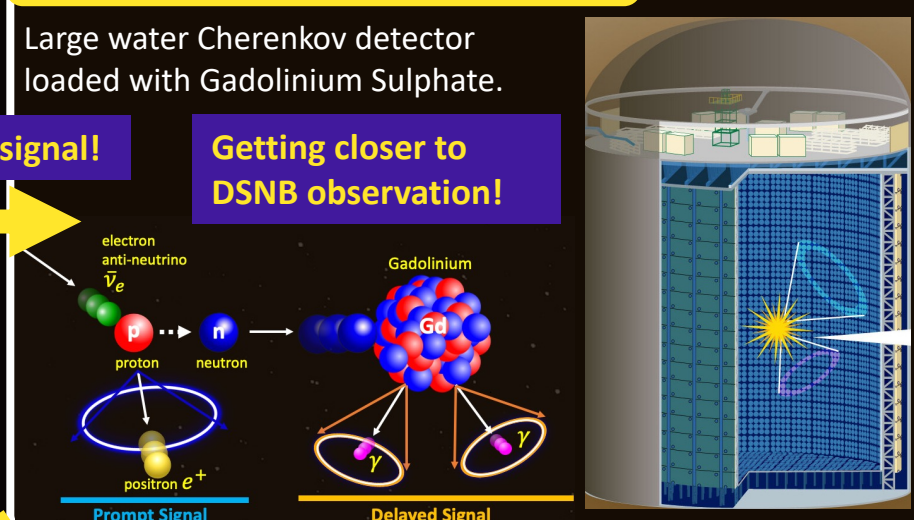
Atmospheric Backgrounds



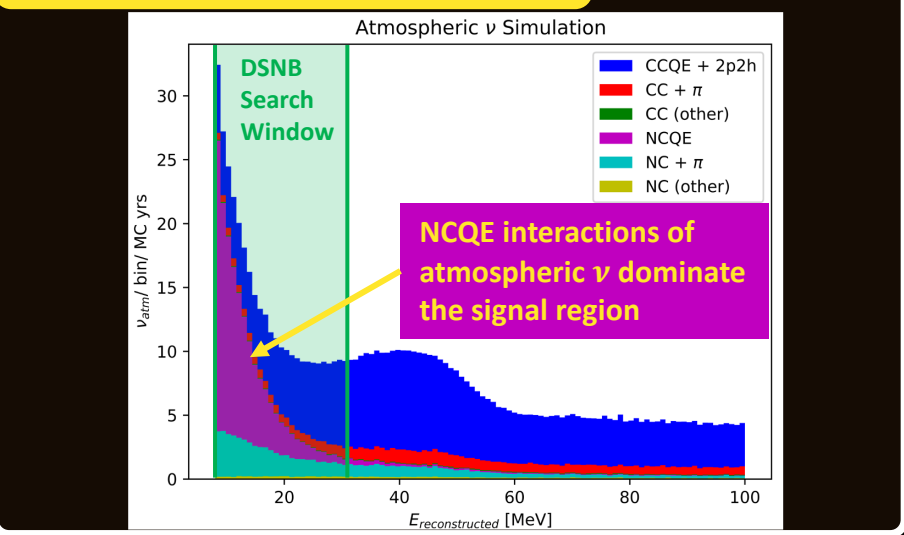
Diffuse Supernova Neutrino Background



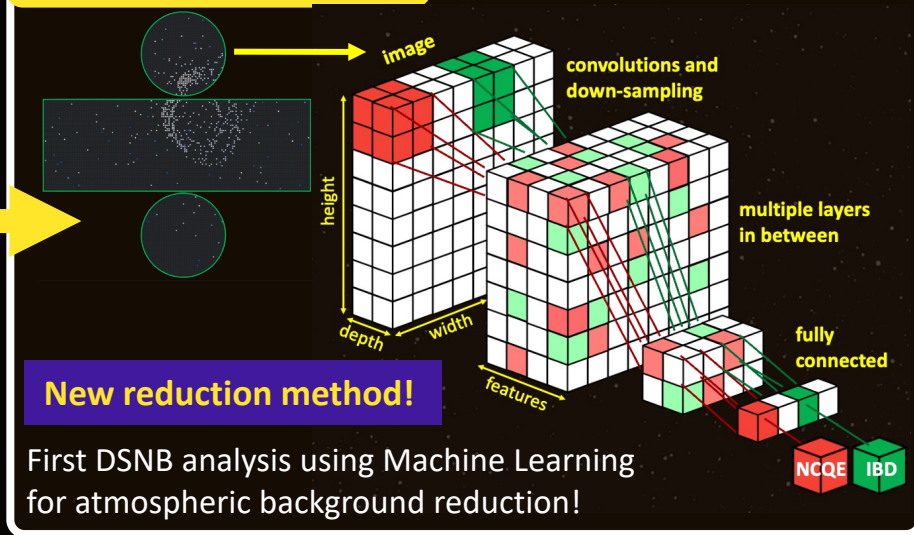
Super-Kamiokande with Gd



Atmospheric Backgrounds



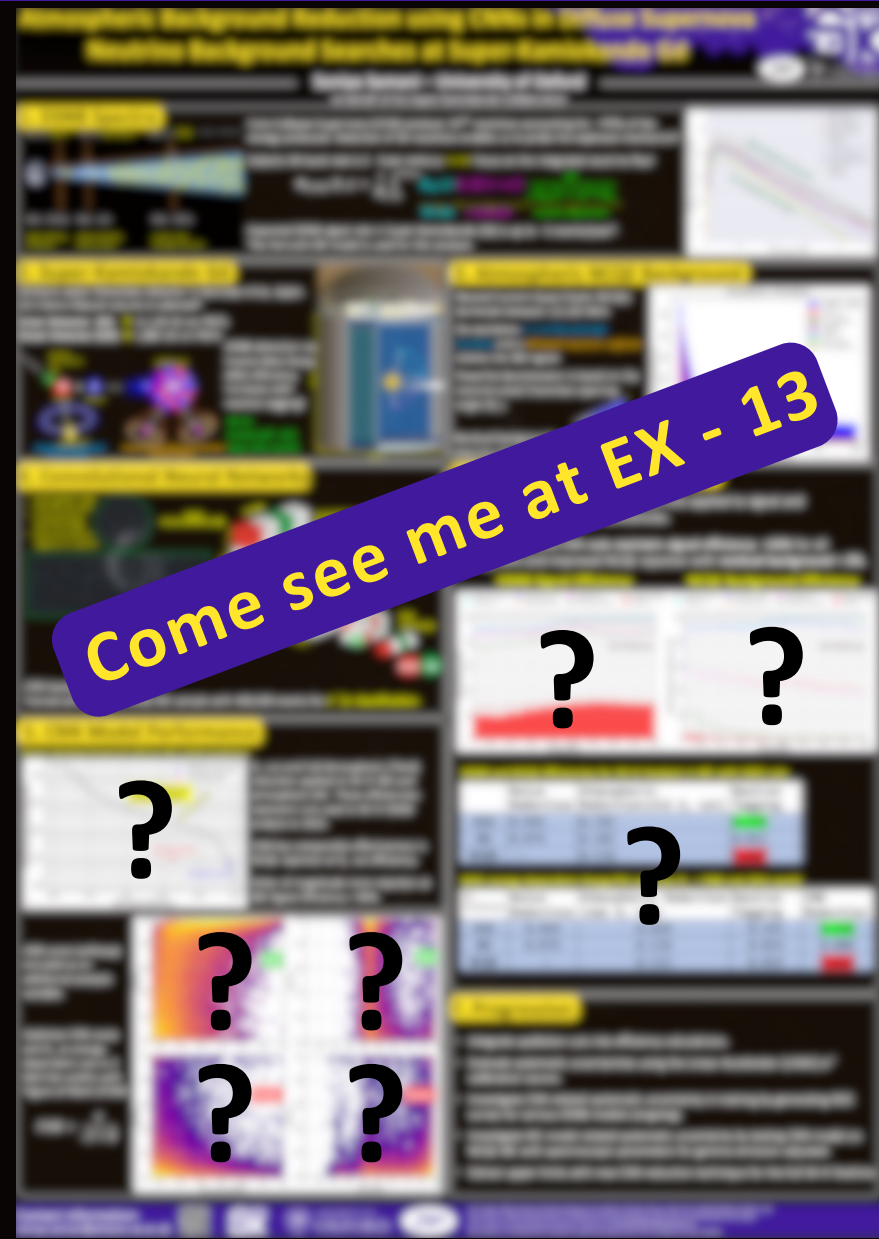
Machine Learning



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