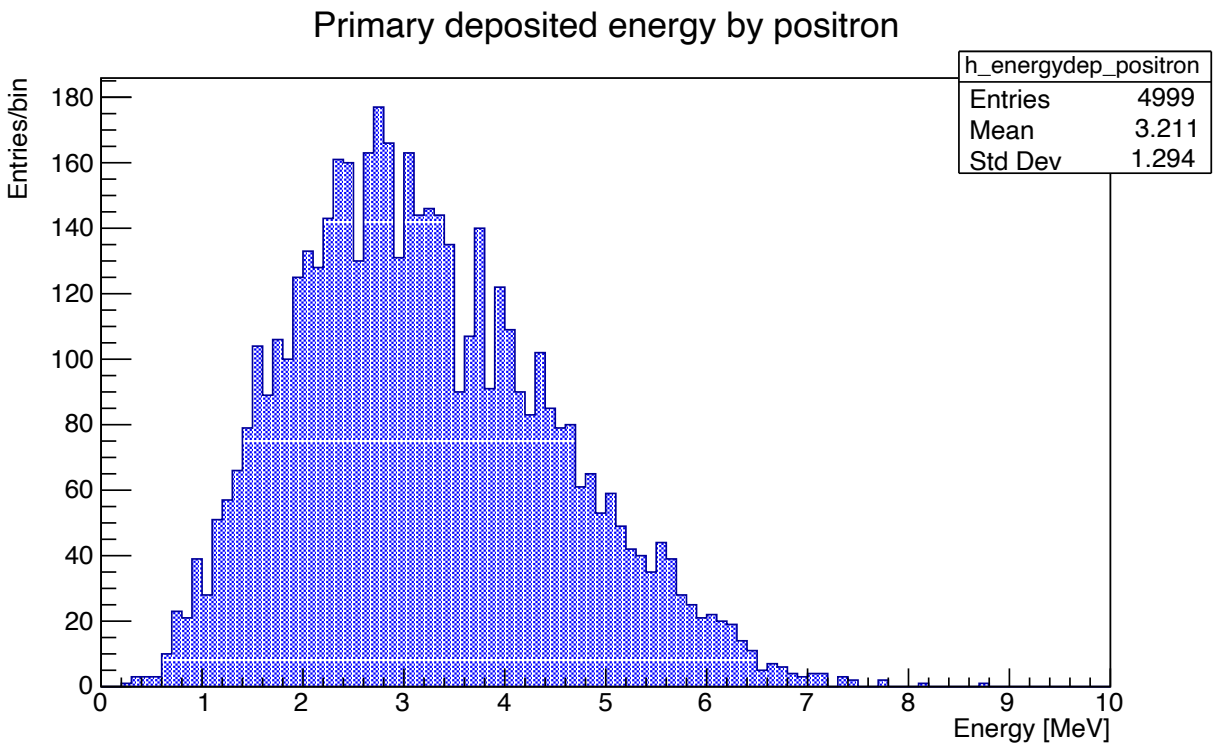
IBD Simulations with TAOsw

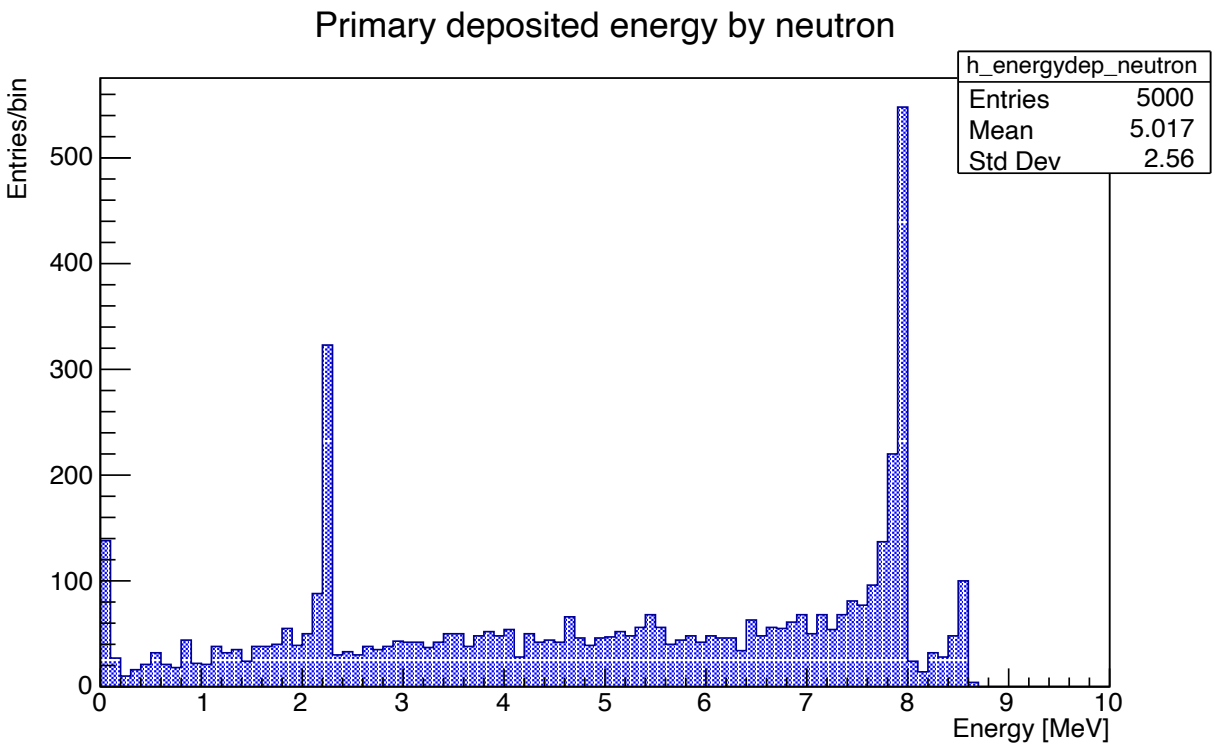
Roma – Milano meeting, 25 July 2024

Elia Stanescu Farilla on behalf of the Roma Tre TAO group

Università degli Studi Roma Tre & INFN

IBD Simulations with TAOsw





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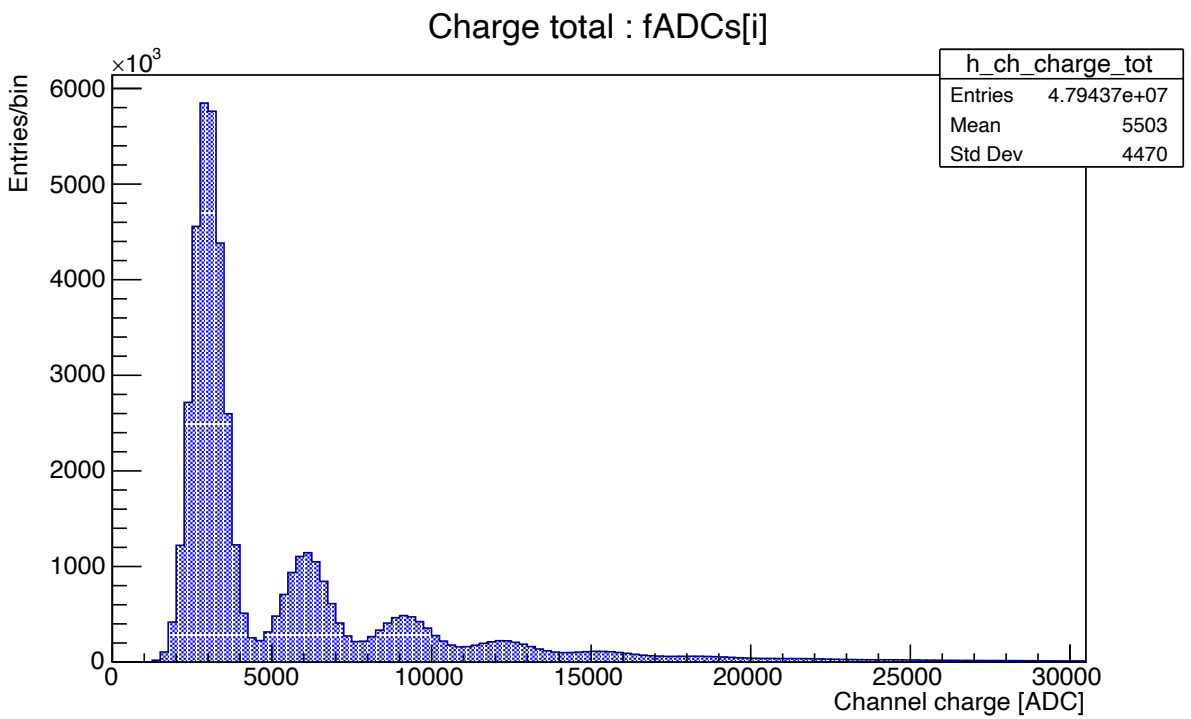

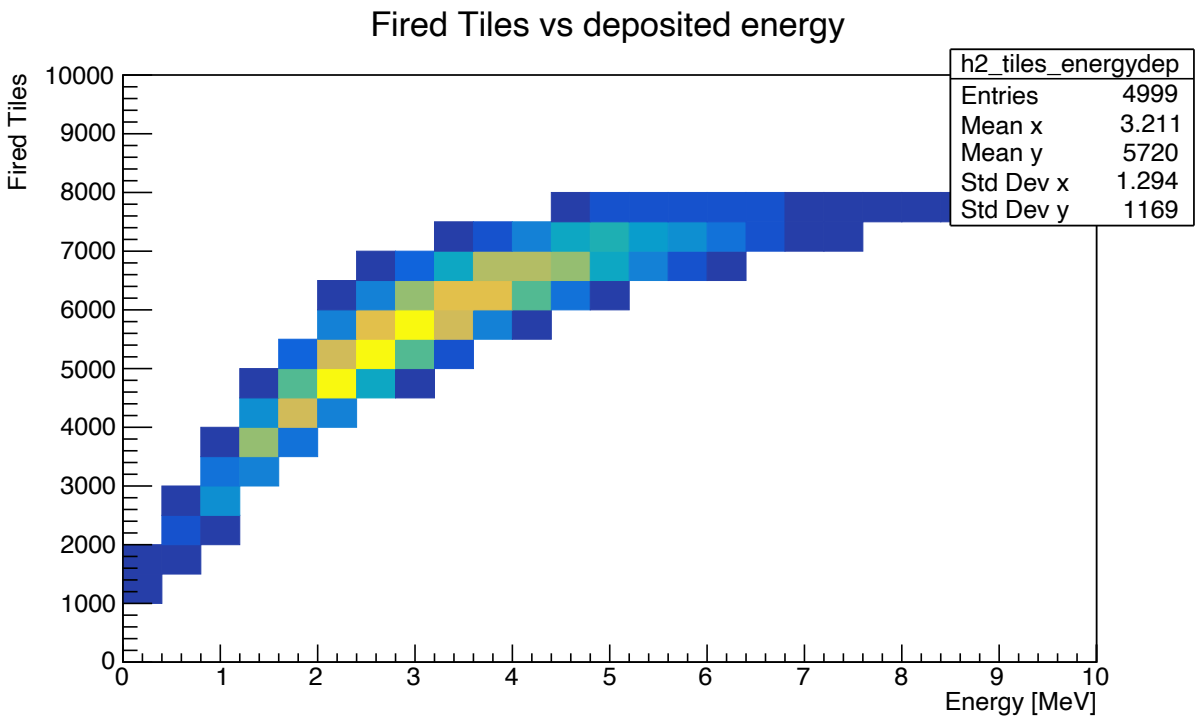

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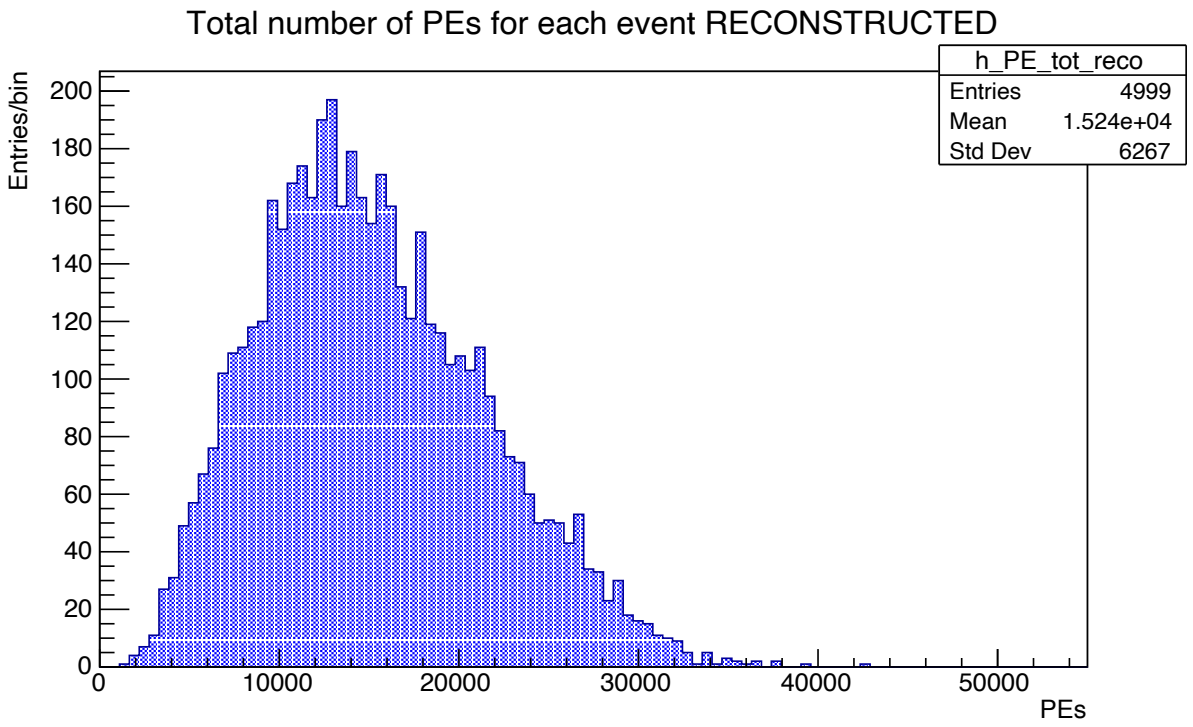

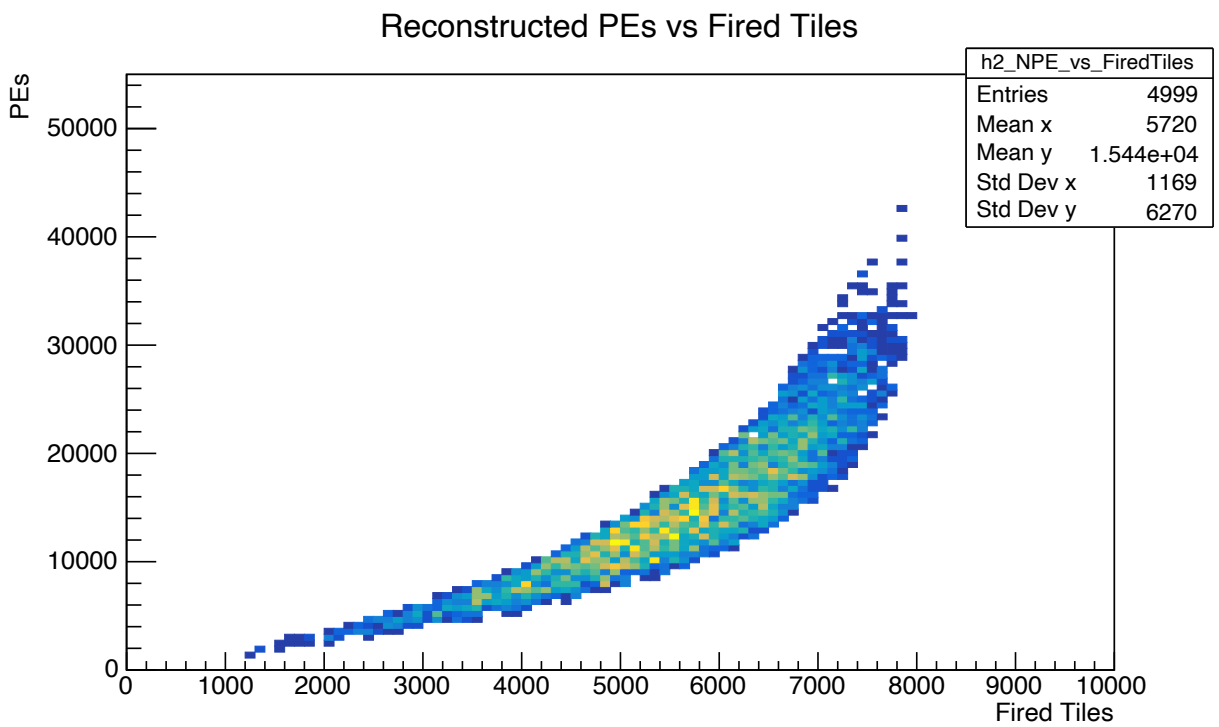

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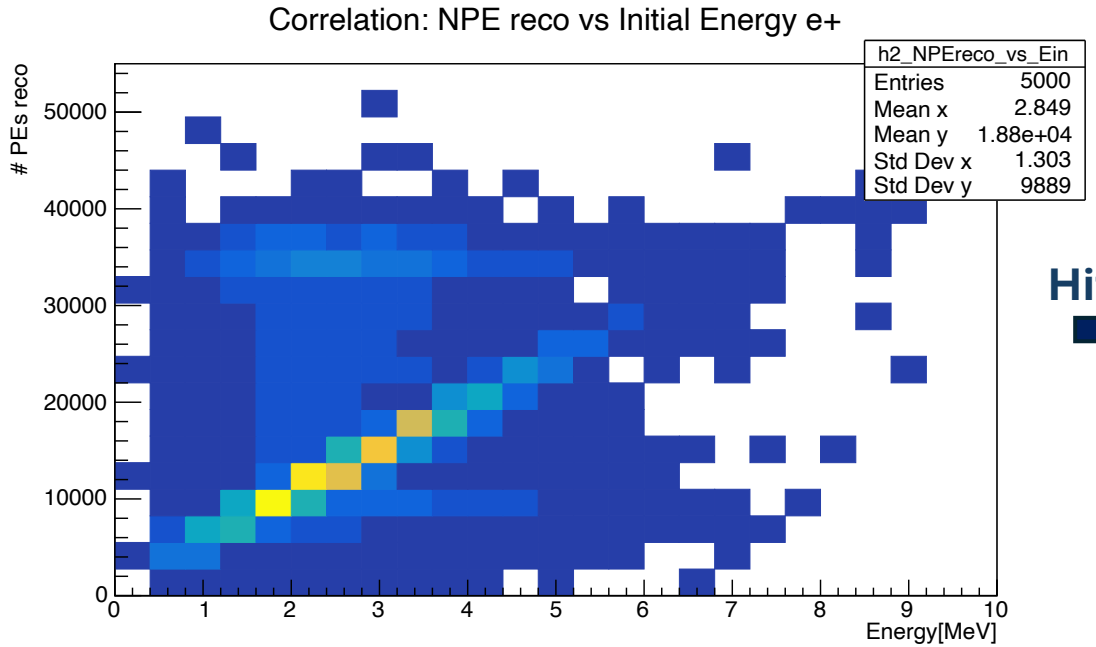

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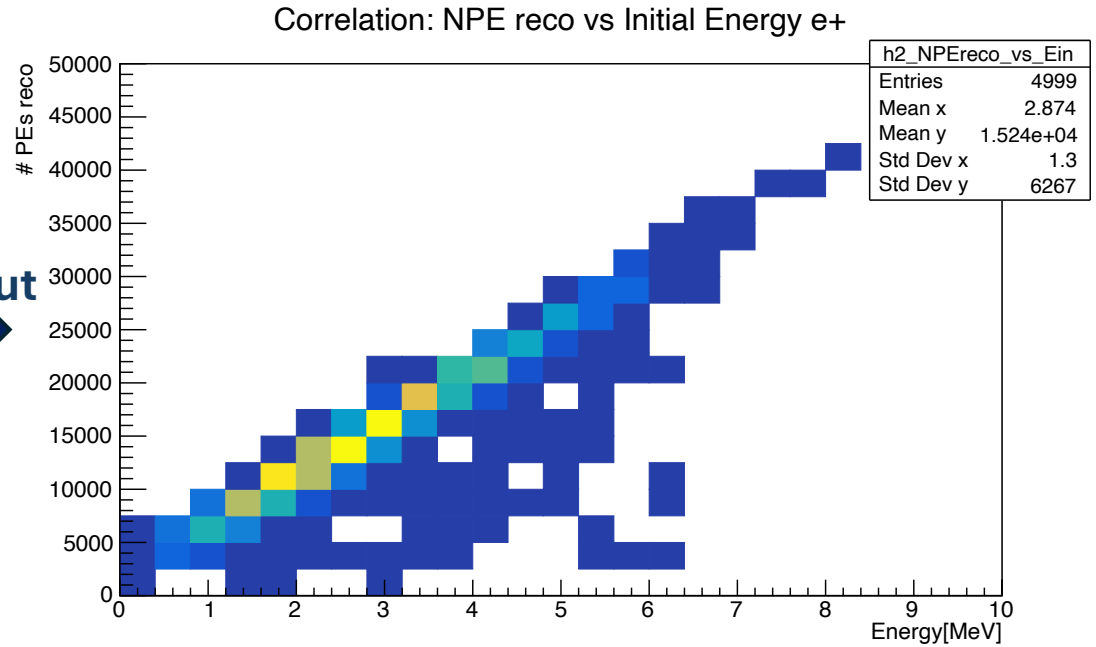

- **Con la prossima release del TAOsw avremo sotto controllo la correlazione Ereco vs Etrue per il positrone negli eventi di IBD**

- **Producendo sufficiente statistica si può ottenere una matrice di smearing per fare studi di sensitivity a diversi spettri di IBD**

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- **Specifiche del generatore di IBD "Unified IBD":**

  https://juno.ihep.ac.cn/Dev_DocDB/0082/008206/002/Validation%20of%20the%20unified%20IBD%20generator.pdf

- **Ulteriori informazioni sui generatori utilizzati in JUNOsw (a parte Muon.exe possono essere utilizzati tutti anche in TAOsw), ovvero IBD, Radioactivity e facendo digging nel doc anche altri generatori:**

  https://juno.ihep.ac.cn/~offline/Doc/user-guide/quickstart/quickstart.html#inverse-beta-decay-ibd