

PPM-DU Coincidence rates

JSirene - km³:
A quick comparison

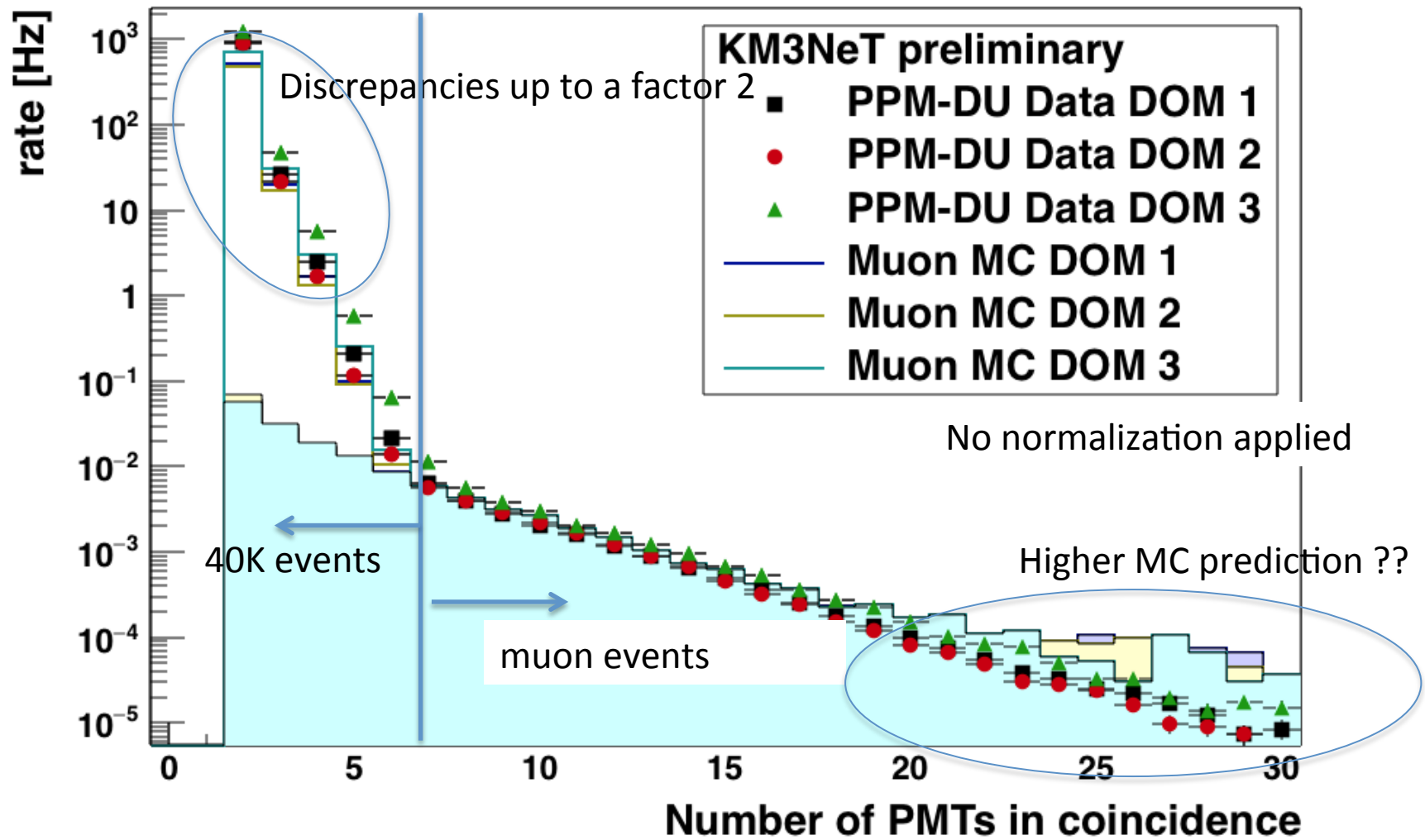
Coincidence analysis (Robert's, Tino's, et. al.'s work)

- Number of hit PMTs
 - At least one L1
 - (≥ 2 L0's on same DOM, within 25 ns)
 - For each DOM
 - For each triggered event
- Expected:
 - Background: Few PMTs hit
 - Muons: Part of DOM enlightened

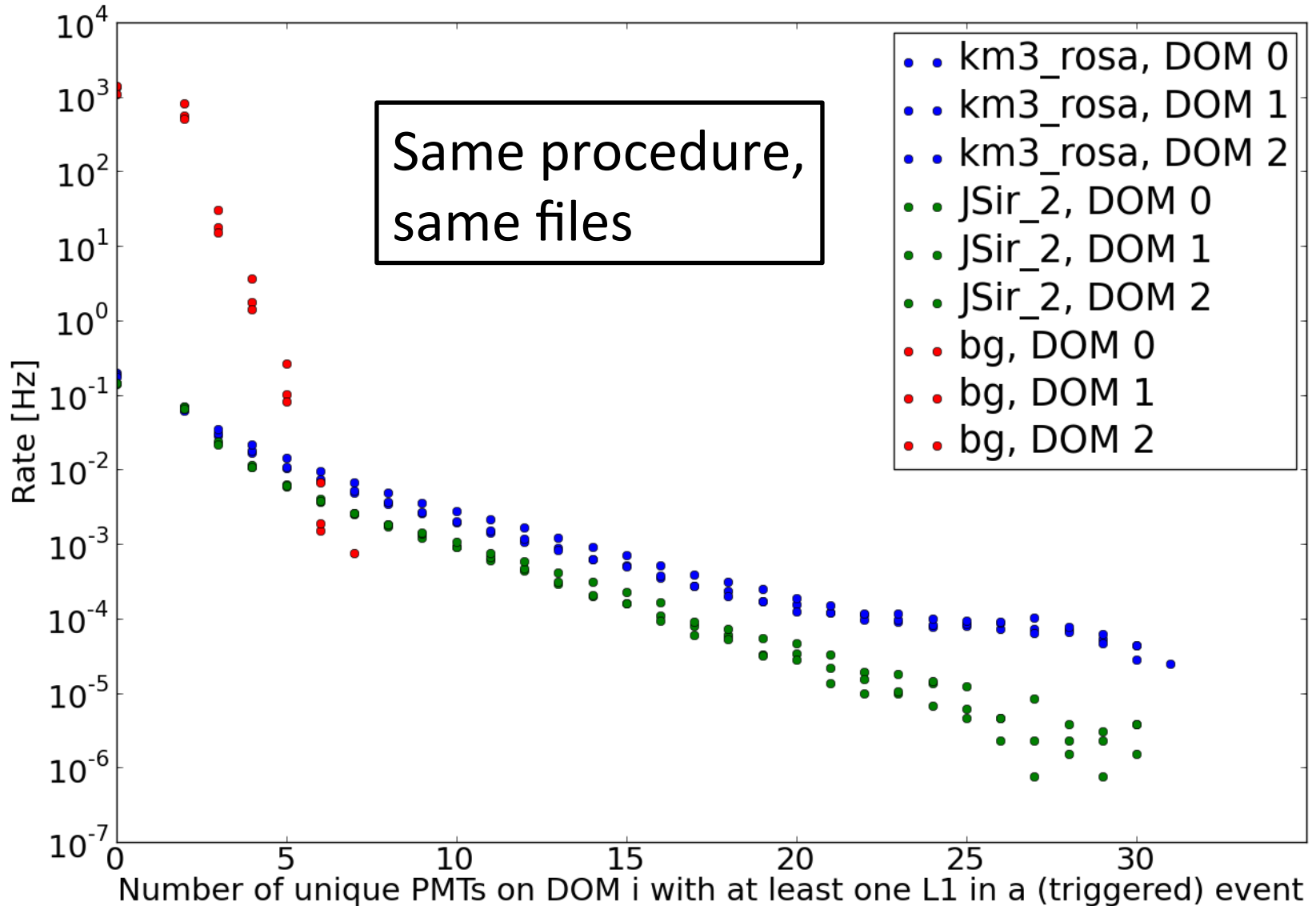
Reminder

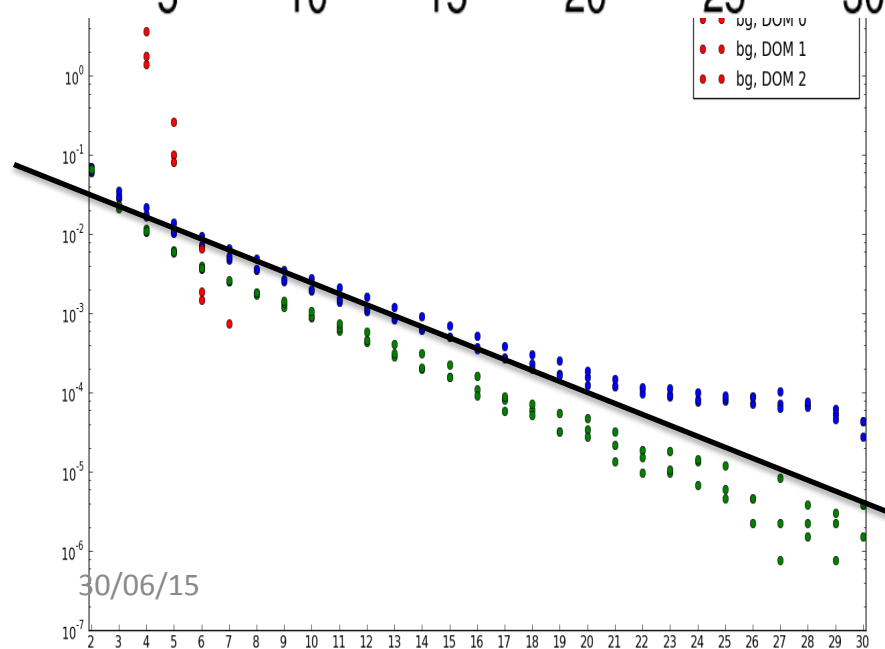
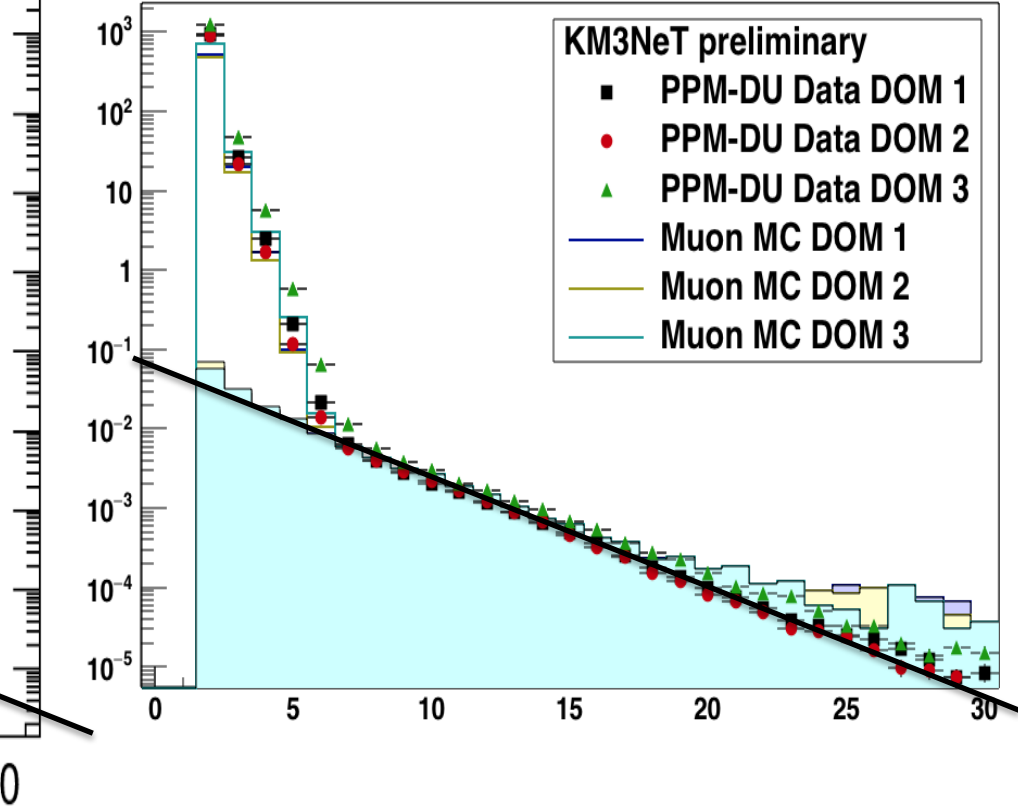
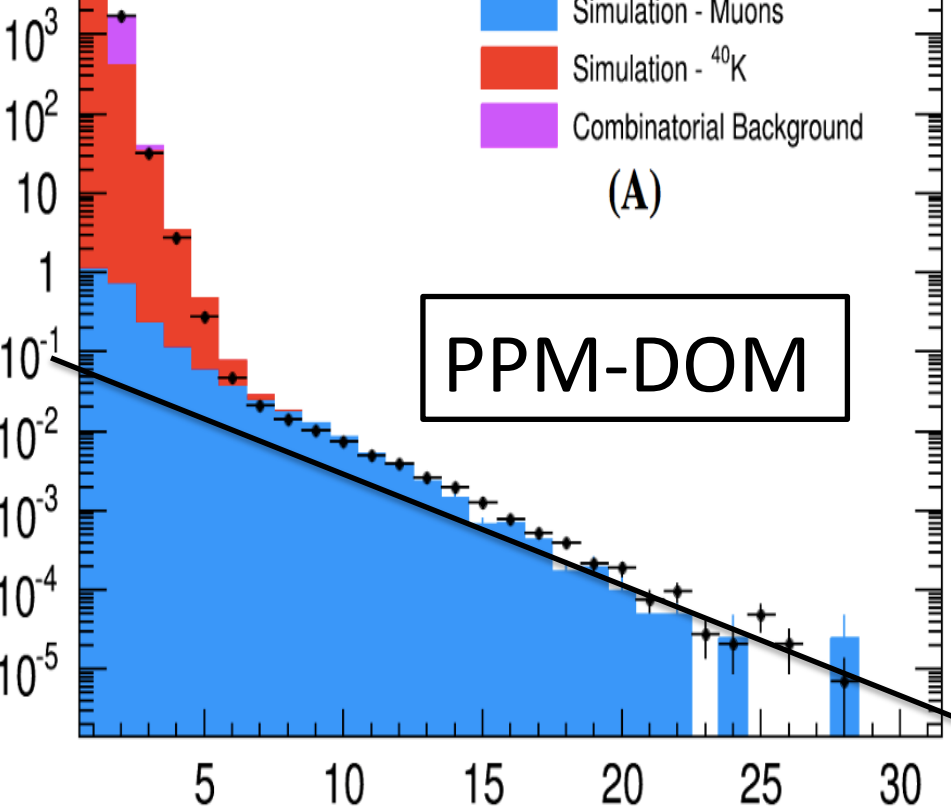
Rosa Coniglione, Ischia meeting 19/5

data 2



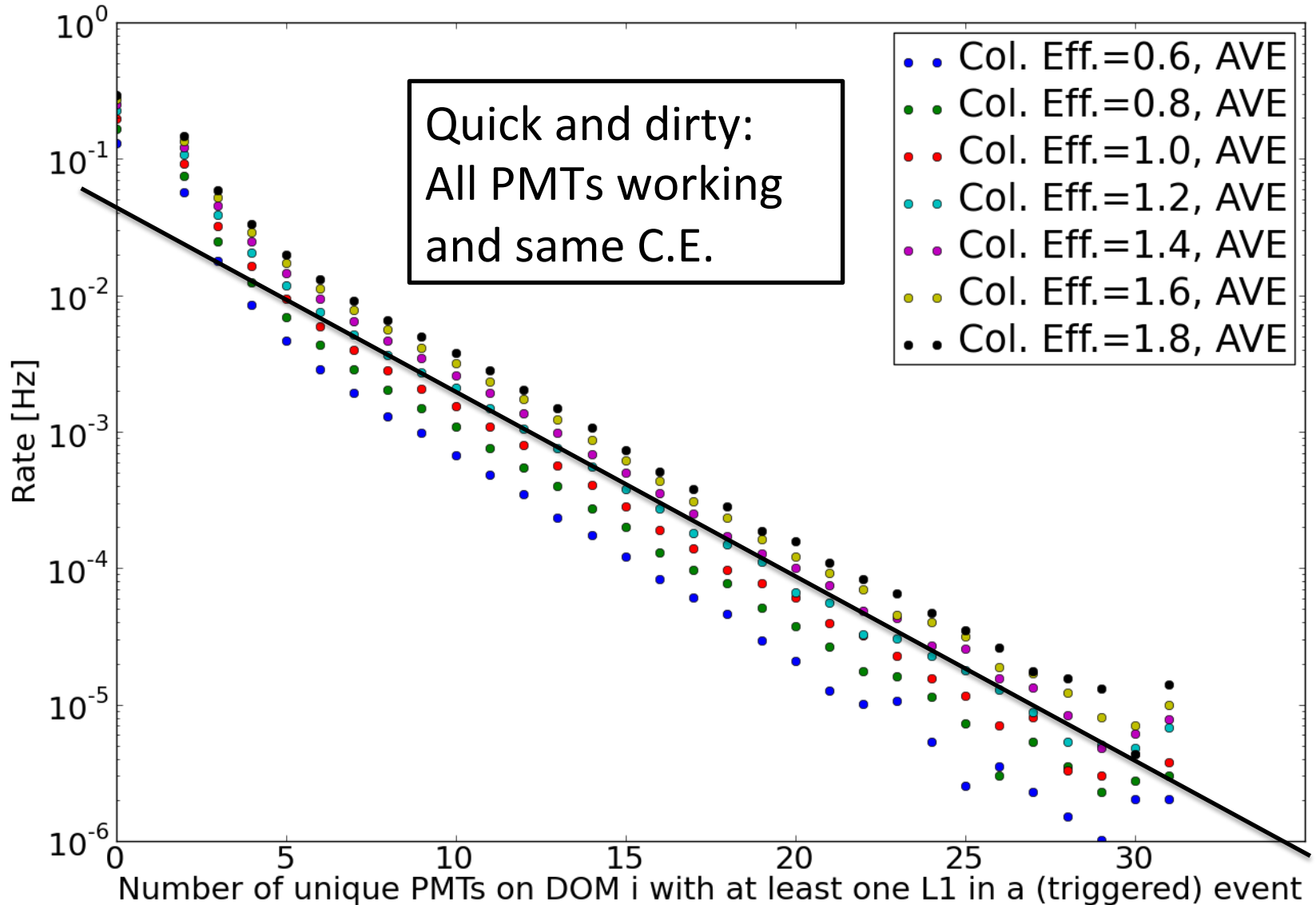
JSirene Simulated Events





Slope: Collection Efficiency?

Collection-Efficiency Scan



Conclusions

- No 'feature' in Jsirene
 - Slight increase for 31 PMTs (overflow bin)
- Collection Efficiency related to $d(\text{rate})/d(\text{PMTs})$
- Col.Eff ≈ 1.2 (JSirene)