

## ■ By end of this Week:

- MC Benchmark Differential Spectra & RF → Towards Unified KNM1 MC
- Freeze Preliminary Systematics Budget (for MC)

## ■ By July 10: Get KNM1 Fake-MC data analyses done Including the following figure-skating studies



- Run-wise analysis results of real data
- Combination of KNM1 golden runs & KNM1 golden pixels including systematic uncertainty
  - Sensitivity:  $E_0 = \text{xxx (stat)} \pm \text{xxx (sys)} \text{ eV}$
  - Sensitivity:  $m^2$  determination:  $m^2 = \text{xxx (stat)} \pm \text{xxx (sys)} \text{ eV}^2$

And any other freestyle studies



## ■ July 15-19: KIT Analysis Workshop

- Review of each Team-wise Analyses
- Finalization of Inputs / Systematics
- Decision for unblinding (or not....) and preliminary results (or not...)

# KNM1 Unblinding Stages

- Goal: unblinding KNM1 analysis during the KIT workshop, on July 18<sup>th</sup>
- Proposal for an unblinding sequence with 3 stages to fulfill during the week
  - Level 1a: fitting teams ready with fake MC data analysis
  - Level 1b: fix and freeze inputs & systematics
  - Level 2: KNM1 REAL DATA Fit with blinded FSD's→ Then fit of real data with Golden Run / Pixel Lists
- Preliminary schedule of the analysis week at:  
<https://docs.google.com/spreadsheets/d/1y1HlcoOErinUV8qNi3Al0oPle1ThQyBGdNVaZxCKVMs/edit?usp=sharing>

Proposal		Tuesday, 16 July	Wednesday, 17 July	Thursday, 18 July	Friday, 19 July
Level 1a Unblinding	Request	Fitting Teams ready with fake KNM1 MC data analysis			
	Action	Figure-skating* and sensitivity study(ies)			
	Validation	Comparison of Results and Sensitivities: methodologies validation, m-square sensitivity agreement (stat & stat+sys)?			
Level 1b Unblinding	Request		KNM1 Working Group deliverables ready		
	Action		Review of all model and systematic inputs for neutrino mass determination		
	Validation		Freeze Run List - Freeze Fixel List - Freeze Inputs - Freeze Fit Range - Freeze Analysis Strategies - Freeze Systematic Inputs		
Level 2 Unblinding	Request			Level 1a + Level 1b	
	Action			KNM1 REAL DATA Fit with Blinded FSD's	
	Validation			Comparison of the results. Check agreement with sensitivity. Check for consistency & anomalies.	
KNM1 Fit & Results	Request				Level 2
	Action				KNM1 REAL DATA Fit with True FSD's
	Validation				First Neutrino Mass Results: comparison of values/uncertainties. Check agreement with sensitivity. Check for consistency & anomalies.