The Interactive Detector Matrix is the (only) official set of parameters for EIC

η	Nomenclature			Tracking			Electrons		п/К/р		HCAL	
				Resolution	Allowed X/XO	Si-Vertex	Resolution OE/E	PID	p-Range (GeV/c)	Separation	Resolution OE/E	Muons
-6.9 to -5.8		Auxiliary Detectors	low-Q2 tagger	<u>σθ/θ < 1.5%: 10-6 < Q2 <</u> <u>10-2 GeV2</u>								
-	↓ p/A											
-4.5 to -4.0			Instrumentation to separate charged particles from photons									
-4.0 to -3.5							2%/\E					
-3.5 to -3.0		Central Detector	Backward Detector	a h - 010 m050			279/12					
-3.0 to -2.5				<u>σρ/p ~ 0.1% ± 0.5%</u>	−5% or less X	IBQ			≤7 GeV/c 2 to	≥3σ	-50%/\E	
-2.5 to -2.0				σ _p /p 0.1%@0.5%			2%/√E	II suppression up to				
-2.0 to -1.5				σ _p /p 0.05% ± 0.5%			7%/\E					
-1.5 to -1.0							7%/√E					
-1.0 to -0.5			Barrel	σ _p / <u>p ~0.05%*p+0.5%</u>		σ _{xyz} ~ 20 μm. d _O (z) ~d _O (rΦ) ~ 20/pτGeV μm + 5 μm			≤ 5 GeV/c			
-0.5 to 0.0												IBD
0.0 to 0.5												
0.5 to 1.0							(10-12)%/\E					
1.0 to 1.5 1.5 to 2.0			Forward Detectors	σ _p / <u>p =0.05%*p+1.0%</u>		TBD			≤ 8 GeV/c		1 1	
2.0 to 2.5											-50%/√E	
2.5 to 3.0				1217747773					≤ 20 GeV/c			
3.0 to 3.5				σ _p /p = 0.1%*p+2.0%					≤ 45 GeV/c			
3.5 to 4.0	↑e	Auxiliary Detectors	Instrumentation to separate charged particles from photons		9							
4.0 to 4.5				<u> </u>				<u>-</u>				
			Neutron Detection		-						 	
			Neutron Detection	@intrinsic(ltl)/ltl < 1%:	<u> </u>						1	
> 6.2			Proton Spectrometer	Acceptance: 0.2 < pt < 1.2 GeV/c								

The interactive Detector Matrix is an evolving entity – needs input from YOU!

- We're working towards the 3rd YR workshop (CUA, Sep 17-19): "mature studies of detector requirements"
- To do so DWG needs to freeze detector matrix August 31!
- We have a meeting with PWG next Wednesday to discuss current input
- Please communicate to us by e-mail or in meeting update
 - Estimate of what you will have by Aug 31
 - Any unreported detector requirements already obtained -> we need to document these on the wiki!
 - o "handbook detector value x works fine for physics object y in process z" also counts as a requirement and is **valuable information**!
 - See yesterday's e-mail
 - Send us your kinematic plots too!
- Don't worry about work done after August not having an impact. It can still be documented in the YR (PWG) and impact detector requirements
 - YR is snapshot in time
 - We are unfortunately on a very tight schedule and with limited resources, with current events not to our advantage

- After CUA workshop, focus on YR "endgame" → document writing
- How to structure/organize this? Our suggestions (input/discussion welcome!):
 - Overleaf/LateX document
 - Conveners will provide skeleton outline/structure and some guidelines regarding length
 - Subsections with studies presented/documented in our WG
 - Put your name down on the overleaf if you will contribute
 - Coordinate subsection writing between those persons
 - Use inspire bibtex format for references
 - We discuss overlaps with exclusive WG etc.
 - This can be the basis for a first draft which can then be edited and iterated