Electromagnetic Calorimeter for HADES Experiment

Ondřej Svoboda for the HADES collaboration

NPI Řež



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25th Indian-Summer School of Physics, September 2-6, 2013, Physics

EMC energy

RPC tof SHOWER

EMC energy simul.

500

1000

 $\mathbf{\bar{z}}$

mom [MeV/c]

Signal parameters					
Rise time	3 ns				
all time	50 ns				
5/N ratio	> 12.5				
Pulse amplitude at 20 MeV	50 mV				
Pulse amplitude at 600 MeV	1.5 V				
Expected hit rate	10 kHz / channel				
Read-out paran	neters				
Time resolution	< 500 ps				
Dynamic range energy	50 mV – 5 V				
Energy measurement accuracy	5 mV				
Final energy resolution	5%/sqrt(E), E in GeV				

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	2014	2015	2016	2017
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PMIS		1		
order&delivery				
HV				- <u> </u>
order&delivery				
bases production				
cabling				
Modules	-			•
mechanics				
assembly				
tests				
installation				
Mainframe		•		-
check of drawings				
production				
installation				
Electronics	-			
FEE pre-production				
FEE test				
ADDON				
FPGA programming				
full test				
production				
Full system assembly				
Commisioning and tests				

Dammsterik Sermany, histikul nu Kennphysik. Kennissiae Universitet

Moscov Russia astrone or Murteal Research of Russian Academy of Scrences (MR)

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