## Update on EMC Crystals current status and prospects for the near future

JUSTUS－LIEBIG－
T UNIVERSITAT GIESSEN

Institute of High Energy Physics
Chinese Academy of Sciences

戸゙コானコ

HG Zaunick

JLU Giessen，Germany

FGIR

Erin

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final position

## Status of Crystal Production @ CRYTUR

## Current production frames

- 71 crystals produced in frame of Prague contract - concluded
- 117 crystals produced in frame of HIM Mainz contract - concluded
- Current production in frame of contract with Uppsala: ~190 xtals expected for delivery until February 2020
- 21 extra crystals as compensation for exposing raw material to current JLAB production
- 38 crystals produced from (old) pending Giessen contract
- Up to now: 314 xtals produced, 297 quality accepted


## Status of Crystal Production @ CRYTUR

## Future schedule

- Potential new funding for 2020 available from PANDA-CZ partner (to be confirmed, possible volume: ~70 crystals)
- Production schedule for PANDA slightly stretched in favor of JLAB production ( 1000 xtals until 2023)
- New project MuonE@CERN: ~ 2500 PWO crystals foreseen (CMS quality)
- Current production rate: 50 xtals/month, boost to $70 /$ month possible


## Status of Crystal Production @ CRYTUR

Radiation Hardness distribution: Acceptance limit $1.1 \mathrm{~m}^{-1}$


## Crystal Inventory

## What we have:

- All FWEC crystals
- All BWEC crystals
- Barrel crystals:

12 Slices (Day-1): 4,096 out of 8,520 (missing 4624)
16 Slices (Full): 4,958 out of 11,360 (missing 6602)

Note: "missing" includes spares

## Crystal Inventory

## Next instrumentation options:

- Slice \#0 still need 0 out of 710 (done)
- Slice \#1
- Slice \#2
- Slice \#3
- Slice \#4
- Slice \#5
- Slice \#6
- Slice \#7
- Slice \#8
- Slice \#9
- Slice \#10
- Slice \#11
- Slices \#12...\#14
- Slice \#15

