

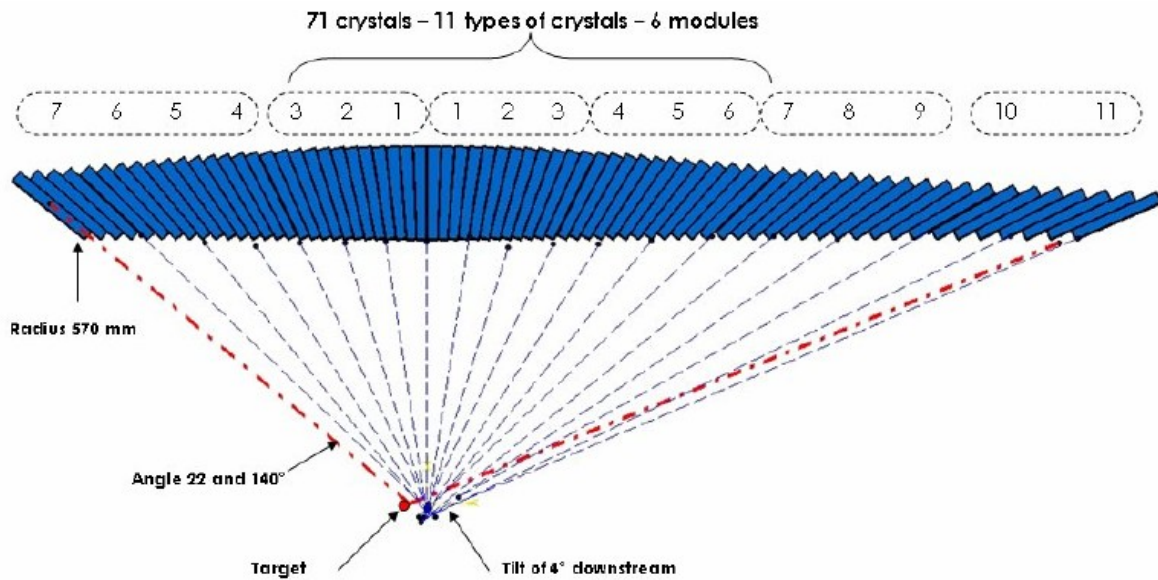
## **Barrel EMC SeeVogh Meeting 18-Apr-2016**

### **Topics:**

1. FE channels and ranges in EMC barrel
2. Integration of HV distribution into Backplane Sandwich PCB

## 1) FE channels and ranges for Barrel r/o

- asymmetric configuration
- $\theta=90^\circ$  corresponds to 4480 crystals out of 11360 in bw range
- $\theta=108^\circ$  corresponds to 2560 crystals out of 11360 in bw range



full barrel:  
45440 ADC channels = 710 ADCs

$\theta=90^\circ$ :  
36480 ADC channels = 570 ADCs

$\theta=108^\circ$ :  
40320 ADC channels = 630 ADCs

## 2) “Backplane PCB” and HV distribution

- new Prototype for HV distribution
- form factor already in final geometry
- 4 channels ok, next step 8 ch
- integration with other functionalities: Vregs, signal buffers, SC buffers

