# **HEC Status**

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# HV Status Endcap C

- multiple new shorts found during HV test in July in the pit
- almost all shorts in upper phi sectors -> dirt?
- not clear if single sub-gap or multi sub-gap shorts
- most sectors can run on 2 good HV lines
- a few have to be operated with bad HV

#### HEC Endcap C ATLAS Pit: HEC1 HV Status









#### HEC Endcap C ATLAS Pit: HV Status





September 17, 2007

**HEC Status MPI Atlas Meeting** 

#### HEC Endcap C ATLAS Pit:

- We have 30 problems (4 old, where 1 is disconnected) in HEC1 and 40 problems (8 old) in HEC2; most are shorts with a resistivity of few MΩ typically;
- Cables and filterbox checked  $\Rightarrow$  OK;
- High resistance means that most likely electrodes are involved;
- Problems cluster at top, density per gap dropping from HEC2 to HEC1 somewhat;
- Need to run with (larger) currents;
- In critical region we can use ISEG modules up to 500 μA; assuming we are running up to 400 μA, we can ramp up 40 channles up to 1500 V (instead of 1800 V);
- Additional 18 channels have to be operated with hospital modules up to 1 mA;

#### HEC Endcap C ATLAS Pit:

If we stick to the normal operation mode wherever possible, i.e. disconnect up to 2 HV lines per section and correct signal by factor 2, we need to operate following sections with currents:

front	φ	sections
	6	2
	10	1,2
	11	1
	12	1
rear		
	7	3
	9	3,4
	10	3,4
	11	3,4
Total		12



# HV Status of Endcap A for comparison

- much fewer shorts
- only one section with 2 bad HV lines
- most shorts not new in the pit

#### HEC Endcap A ATLAS Pit: HEC1 HV Status



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## HEC Endcap A ATLAS Pit: HEC2 HV Status



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### HEC Endcap A ATLAS Pit: HEC1 HV Status



### HEC Endcap A ATLAS Pit: HEC2 HV Status



#### **HEC Endcap A ATLAS Pit: HV Status**



#### HEC Endcap A ATLAS Pit:

We have 8 problems (6 old +2 larger currents) in HEC1 and 11 problems (6 old) in HEC2;

Only 1 longitudinal section with 2 HV problem, all others at most 1 problem;