



## Next Steps

- Discussion on person in charge of optical inspection summary table
- Preparation for the AAP review



# Short Overview of the Common Template

A51	NR1-2								
A	B	C	D	E	F	G	H		
1	Cavity Information								
11									
12	Cavity Name	Type of cavity	Cell shape	Material	Final surface treatment	High temperature heat	Remarks	Gradient [MV/m]	Q0
27									
28	STF BL#5	9-cell	TESLA (KEK)	Fine-grain	EP125um	600-800			
29	STF BL#6	9-cell	TESLA (KEK)	Fine-grain	EP125um	600-800			
30									
31	ERL-injector 2cell	other (please specify in remark)	TESLA (KEK)	Fine-grain	not yet (As received)		2cell cavity, MHI	Not yet	
32									
33	JLab								
34									
35	ICHIRO5	9-cell	Ichiro	Fine-grain					
36	AES4	9-cell	TESLA (EU and US)	Fine-grain					
37	A8	9-cell	TESLA (KEK)	Fine-grain					
38	A15	9-cell	TESLA (EU and US)	Fine-grain					
39	A12	9-cell	TESLA (EU and US)	Fine-grain					
40	A13	9-cell	TESLA (EU and US)	Fine-grain					
41	J2	9-cell	TESLA (EU and US)	Fine-grain					
42	J1	9-cell	TESLA (EU and US)	Fine-grain					
43	JL001	9-cell	TESLA (EU and US)	Fine-grain					
44	LG1	9-cell	TESLA (EU and US)	Large-grain					
45	PKU9-1	9-cell	TESLA (EU and US)	Fine-grain					
46	HG006	other (please specify in remark)	other (please specify in remark)	Fine-grain					
47	IA15	other (please specify in remark)	other (please specify in remark)	Fine-grain					
48									
49	Cornell								
50									
51	NR1-2	1-cell	TESLA (EU and US)	Fine-grain					
52	NR1-3	1-cell	TESLA (EU and US)	Fine-grain					
53	NR1-5	1-cell	TESLA (EU and US)	Fine-grain					
54	NR1-6	1-cell	TESLA (EU and US)	Fine-grain					
55									
56									
57									
58									
59									
60									
61									

  

P35																			
P	Q	R	S	T	U	V	W	X	Y	Z									
1	T-map Data					Optical Inspection Data													
11																			
12	Number of hot spots	Location	Comments	Date	Correlation with t-map	Size of defect at hot spot location [um]	Type of defect	Full weld inspection	Inspection outside weld area	# of defects									
13																			
14																			
15																			
16					yes	Group of Spots, 10mm length along EBW seam	Bump												
17					yes	Group of Spots, 15mm length along EBW seam	Bump												
18																			
19			No T-map	12. Jun 08	no			yes	yes										
20	2	Cell 4	Stiffening ring area	10. Mrz 08	no														
21		Cell 2	Stiffening ring area	10. Mrz 08	no			yes	yes										
22																			
23																			
24																			
25	1	Cell 3	Equator HAZ	15. Okt 08	yes	diameter = 800 um, Height = ??? Over a measuring limit	Bump	yes	yes										
26	1	Cell 3	Equator HAZ	12. Nov 08	yes	diameter = 800 um, Height = about 50 um	Bump	no	yes										
27																			
28								yes	yes										
29								yes	yes										
30																			
31																			
32																			
33																			
34																			
35			its																
36			Stiffening ring area					other (please specify)	no										
37			Equator weld					Pit	no										
38			Equator HAZ					other (please specify)	no										
39	1	Cell 3	Equator HAZ		yes	200-300 diameter	Pit	no											
40	1	Cell 7																	
41	2	Cell 1	Equator HAZ		will T-map cells 6 based on inspection data			yes	yes										
42					T-mapping cells 3, 9 MV/m in Pi mode (md) yes														
43																			
44																			
45		Cell 5																	
46																			
47																			



## Update on Optical Inspection and Temperature mapping Results

- Need to get a overview of where similar problems have been observed
  - **Catalogue of defects observed**
  - **Measure the effectiveness of optical inspection**
- Several people from several institutes have contributed their data in a common format
  - **Thanks to all colleagues involved in the data taking**
- This is a work in progress and therefore not complete
- Continuous monitoring and update needed
  - **Proposals?**



# Preparation for the AAP review

- Will send a talk to this group requesting comments