



ILC Cavity Database Status

Sebastian Aderhold (DESY)

Curtis Crawford (Cornell) – Thanks, Zack!

Grigory Ereameev (JLab) – Thanks, Rongli!

Camille Ginsburg (FNAL)

Kirk Yamamoto (KEK)

And the DESY Database Team: Dieter Gall, Vladimir Gubarev,
Sibel Yasar

ALCPG Meeting – Eugene, Oregon (WebEx)

19-23.Mar. 2011

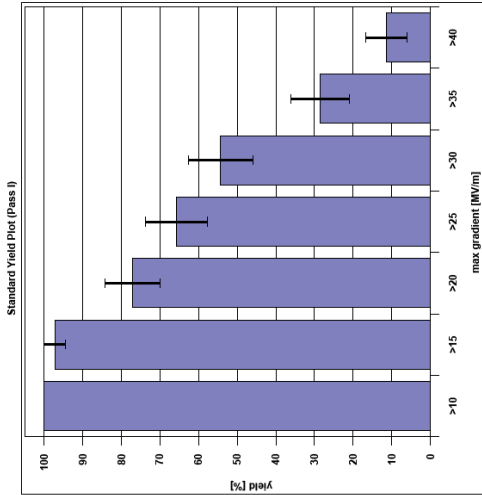
Comments on the plots

- Most recent update was TDP/R&D plan release 5 [June 30, 2010]
 - 35 cavities for 1st pass, 27 cavities for 2nd pass
- ALCPG 2011
 - Cavity updates
 - TB9RI027, TB9RI028 (1st and 2nd pass) from JLab
 - one cavity, TB9ACC015, was found to have no standard second pass process (mistake of data entry)
 - MHI012, MHI013, MHI014, (1st and 2nd pass), MHI015 (1st pass only) from KEK
 - MHI data were added to database using TTC talk [Feb. 2011] by Kirk Yamamoto-san; due to the nature of this update, I would like to wait for confirmation before making these “official”
 - 41 cavities for 1st pass, 31 cavities for 2nd pass



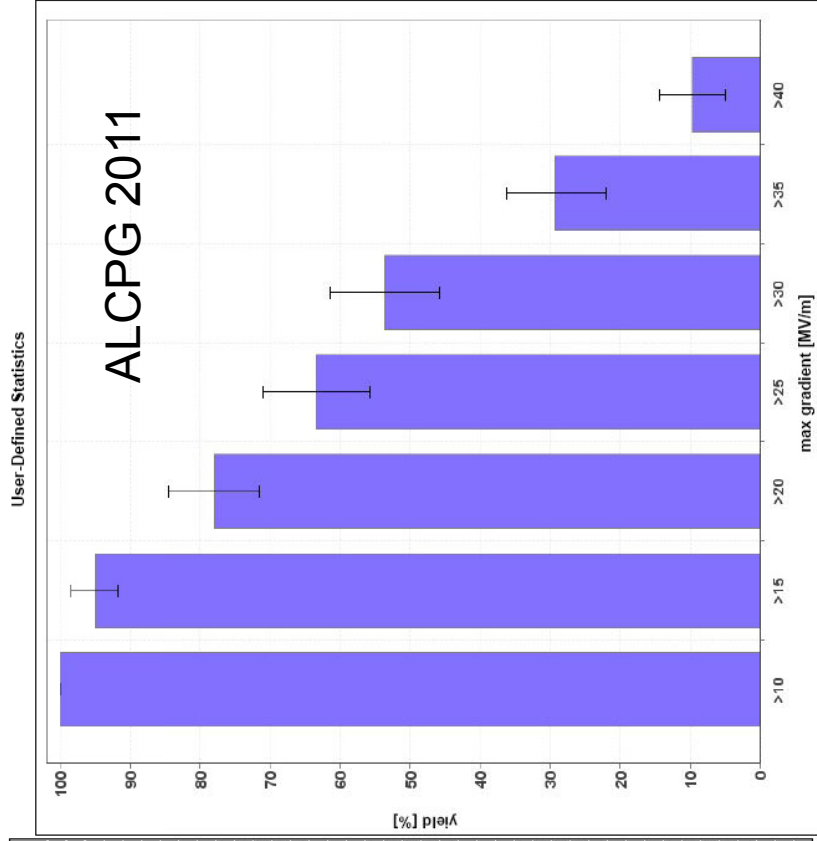
1st pass (detail)

No.	Cavity	Test Date	Max. Elec. [MV/m]
1	TB9ACC013	01.Dec.08	41.80
2	TB9ACC014	09.Feb.09	41.50
3	TB9AES008	25.Aug.09	41.10
4	TB9AES007	16.Mar.10	41.00
5	AC122	26.Aug.05	38.88
6	AC115	11.Dec.07	38.60
7	TB9RI019	11.Jun.10	38.00
8	TB9ACC011	06.Nov.09	37.70
9	TB9ACC011	21.Aug.08	37.00
10	TB9ACC011	25.Nov.10	36.20
11	AC120	07.Jul.08	35.10
12	TB9ACC012	13.Nov.09	34.94
13	AC125	15.Jul.08	34.59
14	AC150	30.Jan.09	34.33
15	TB9AES009	18.Aug.09	33.40
16	TB9RI018	15.Apr.10	33.10
17	Z143	06.Oct.08	32.57
18	Z108	21.Feb.07	31.70
19	AC127	13.Feb.09	31.25
20	TB9ACC016	14.Dec.09	31.20
21	TB9RI027	09.Sep.10	31.00
22	ACCEL7	05.Sep.05	29.00
23	AC149	28.Jan.09	28.51
24	AC124	05.Feb.06	26.01
25	Z137	24.Feb.06	25.23
26	Z139	12.Sep.08	24.83
27	AC148	05.May.10	23.63
28	MH1016	03.Feb.11	22.50
29	TB9RI028	01.Oct.10	22.00
30	Z142	01.Jul.09	20.58
31	TB9AES006	27.Mar.06	20.50
32	ACCEL6	12.Dec.05	19.00
33	Z141	16.Apr.08	18.29
34	TB9ACC015	02.Jul.08	18.00
35	Z130	01.Sep.08	17.30
36	Z131	20.Aug.08	17.17
37	Z132	19.Aug.08	16.83
38	AC126	05.Sep.05	16.37
39	MH1014	20.Jan.11	15.00
40	TB9AES005	09.Apr.08	14.10



1st-pass cavity yield at >25 MV/m is (66 +- 8) %
(63 +- 8) %
 >35 MV/m is (29 +- 8) %
(29 +- 8) %

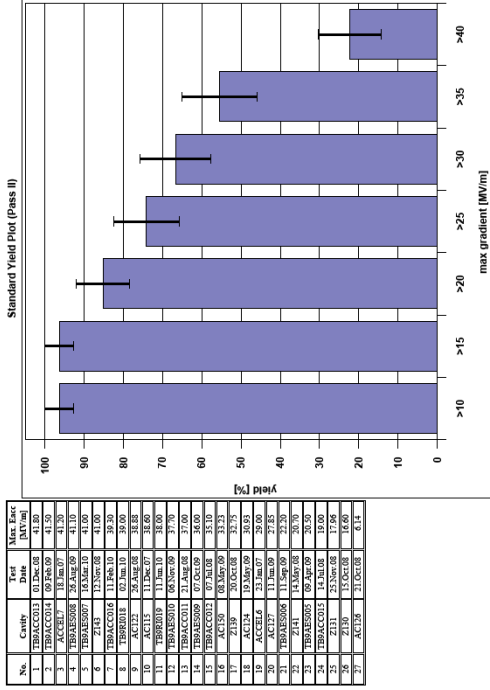
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3	TB9AES008	25.Aug.09	41.10
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5	AC122	26.Aug.05	38.88
6	AC115	11.Dec.07	38.60
7	TB9RI019	11.Jun.10	38.00
8	TB9AES010	06.Nov.09	37.70
9	MH1012	11.Nov.10	37.50
10	TB9ACC011	21.Aug.08	37.00
11	MH1013	25.Nov.10	36.20
12	TB9ACC012	07.Jul.08	35.10
13	Z134	13.Nov.09	34.94
14	AC125	15.Jul.08	34.59
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TDP/R&D plan release 5



2nd pass (detail)



TDP/R&D plan release 5

2nd-pass cavity yield at >25 MV/m is (74 +- 8) %
(74 +- 8) %
 >35 MV/m is (56 +- 10) %
(55 +- 9) %

