



Update on New 3D Layout

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- Bump pad layout details for new chips
 - RD53
 - FERMILAB



Joined meeting RD53 / sensor designers in CMS /ATLAS

chaired by Lino Demaria (Università e INFN (IT))

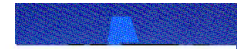
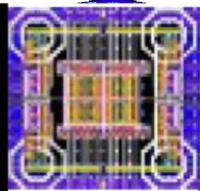
Friday, 12 December 2014 from 16:00 to 18:22 (Europe/Zurich)
at CERN (14-4-010)



Video Services Vidyo public room : [Join_meeting_RD53___sensor_designers_in_CMS__ATLAS](#) [More Info](#) | [Join Now!](#)

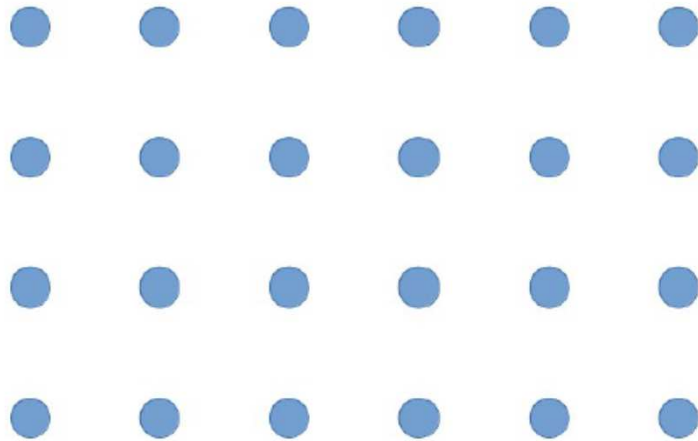
Friday, 12 December 2014

- 16:00 - 16:10 **Introduction 10'**
Speaker: Lino Demaria (Università e INFN (IT))
Material: [Slides](#)
- 16:10 - 16:25 **Feedback and perspectives from the chip side 15'**
Speaker: Mauricio Garcia-Sciveres (Lawrence Berkeley National Lab. (US))
Material: [Slides](#)
- 16:25 - 16:35 **Feedback from HPK 10'**
Speaker: Yoshinobu Unno (High Energy Accelerator Research Organization (JP))
Material: [Slides](#)
- 16:35 - 16:45 **Feedback from 3D CNM design 10'**
Speaker: Giulio Pellegrini (Universidad de Valencia (ES))
Material: [Slides](#)
- 16:45 - 16:55 **Feedback from CIS and ADVACAM 10'**
Speaker: Anna Macchiolo (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut) (D))
Material: [Slides](#)
- 16:55 - 17:05 **Feedback from FBK 3D design 10'**
Speaker: Prof. Gian-Franco Dalla Betta (INFN and University of Trento)
Material: [Slides](#)
- 17:05 - 17:15 **Feedback from 3D SINTEF design 10'**
Speakers: Angela Kok (SINTEF), Ozhan Koybasi (SINTEF)
Material: [Slides](#)
- 17:15 - 17:25 **Feedback from MICRON 10'**
Speaker: Gianluigi Casse (University of Liverpool (GB))
- 17:25 - 17:45 **Discussion 20'**

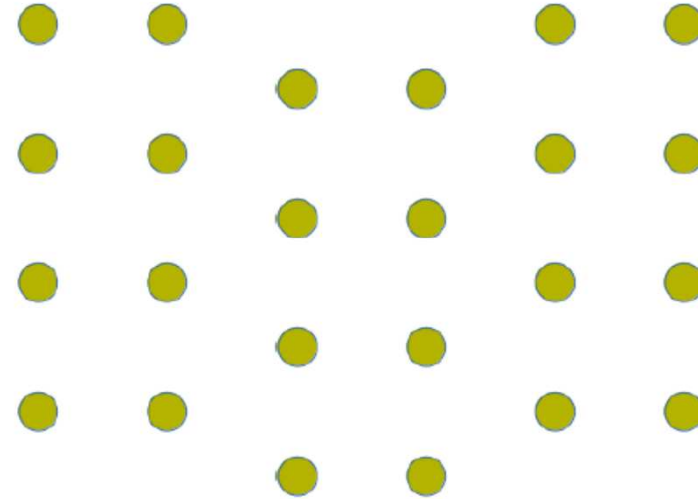


Two options for chip

1



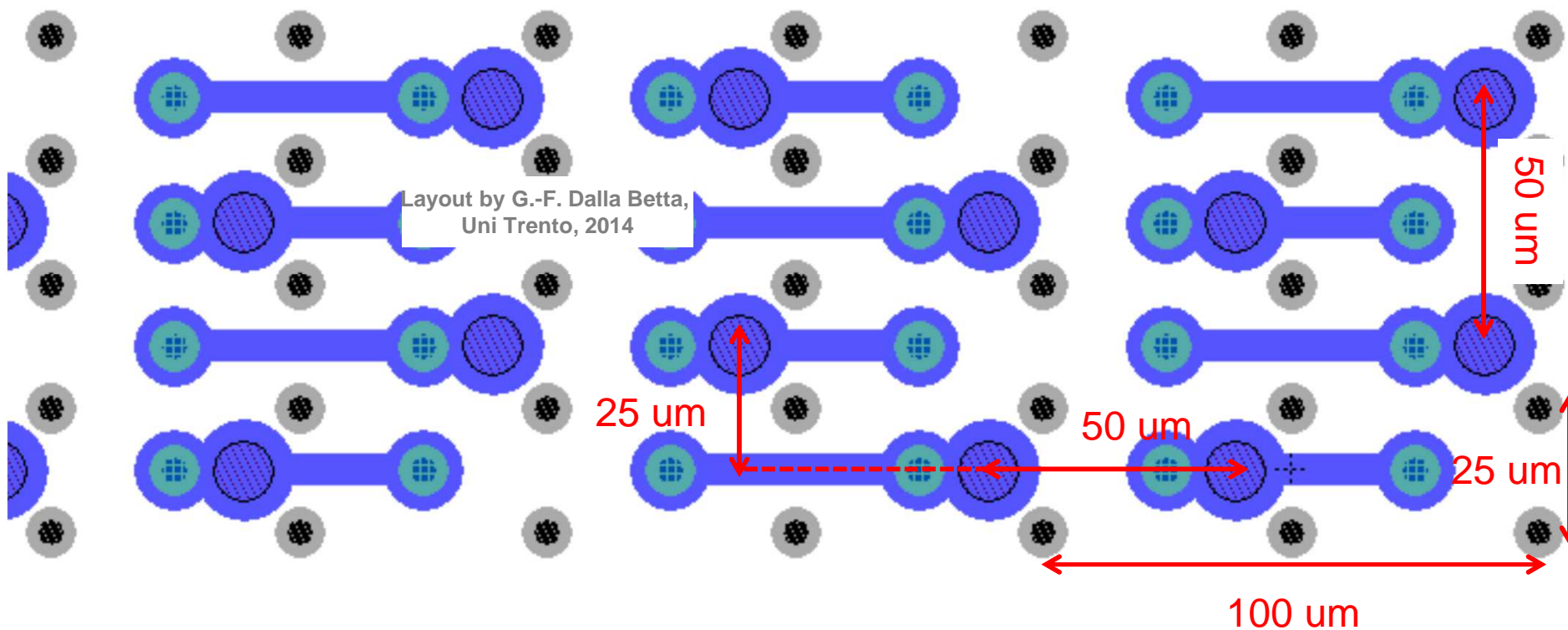
2





BUMP PADS RD53 (1): 25 x 100 (2E)

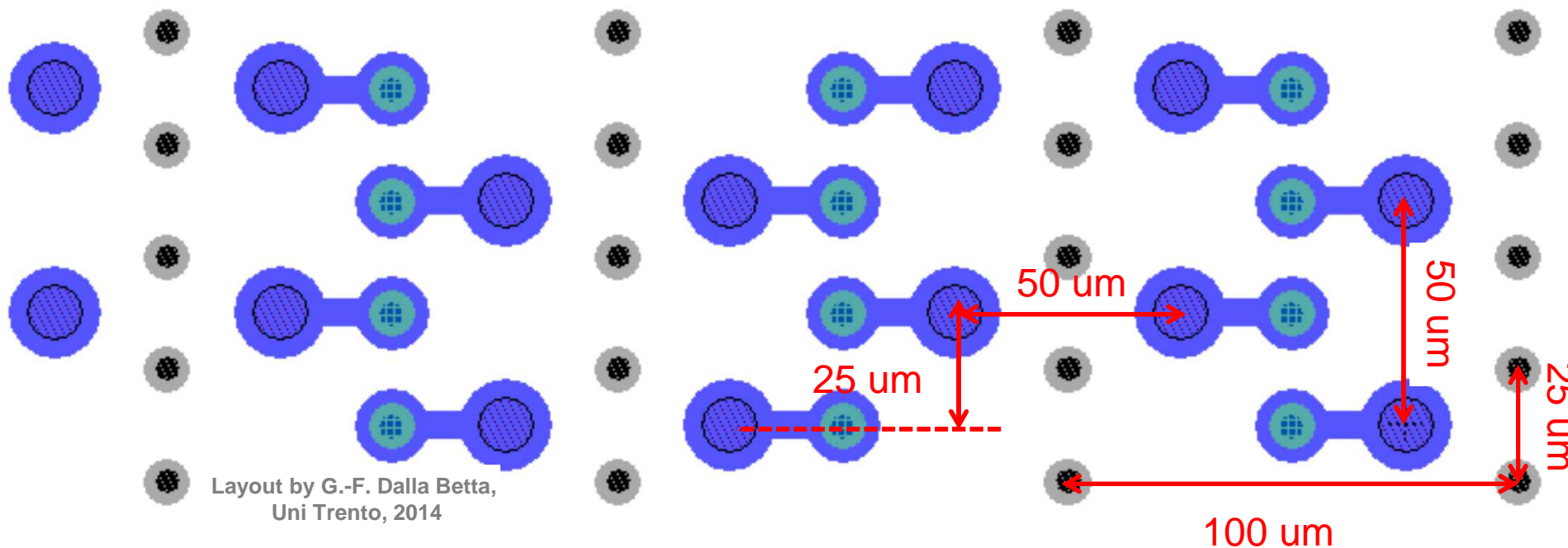
Only compatible with option 2





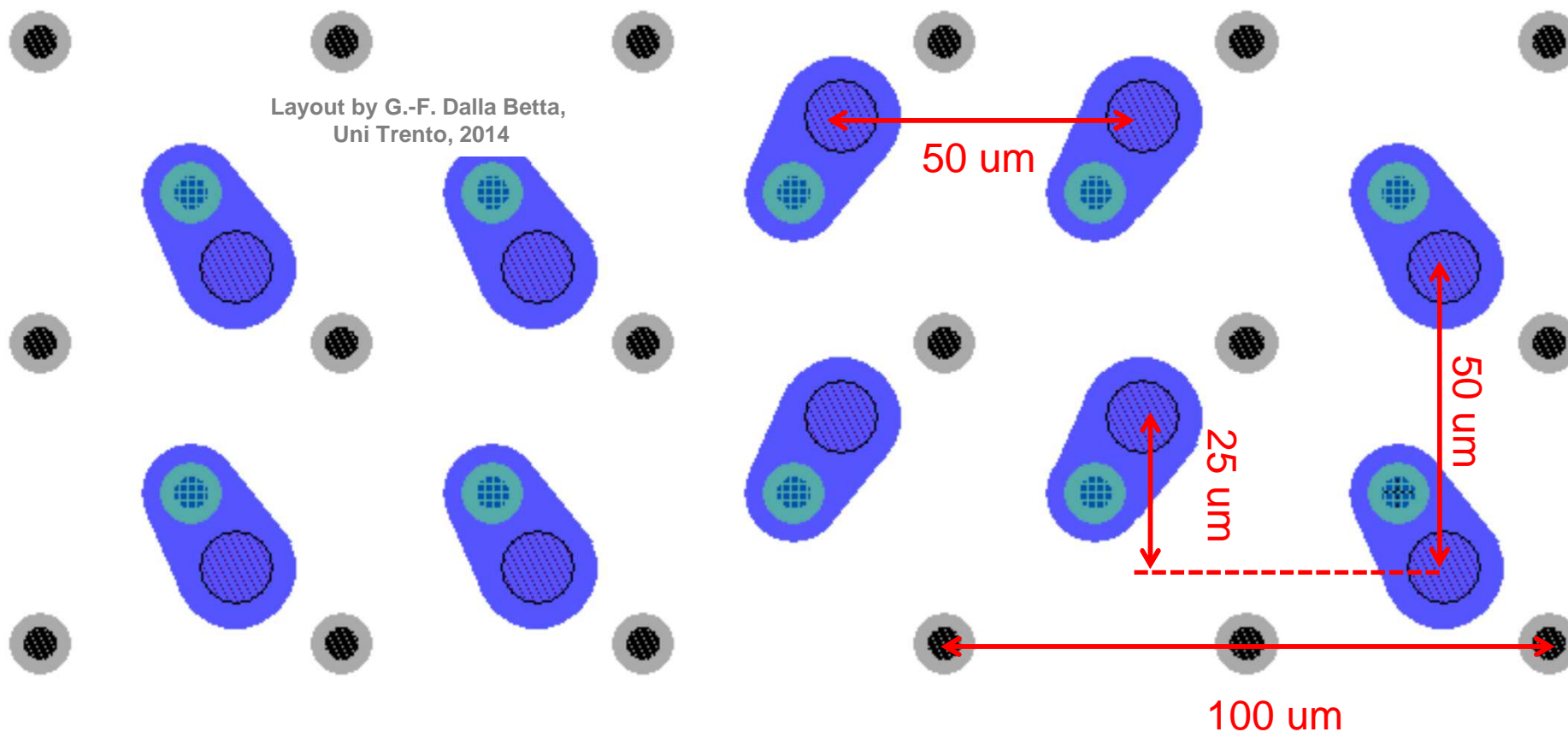
BUMP PADS RD53 (2): 25 x 100 (1E)

Compatible with options 1 and 2
(better with option 2 here shown)



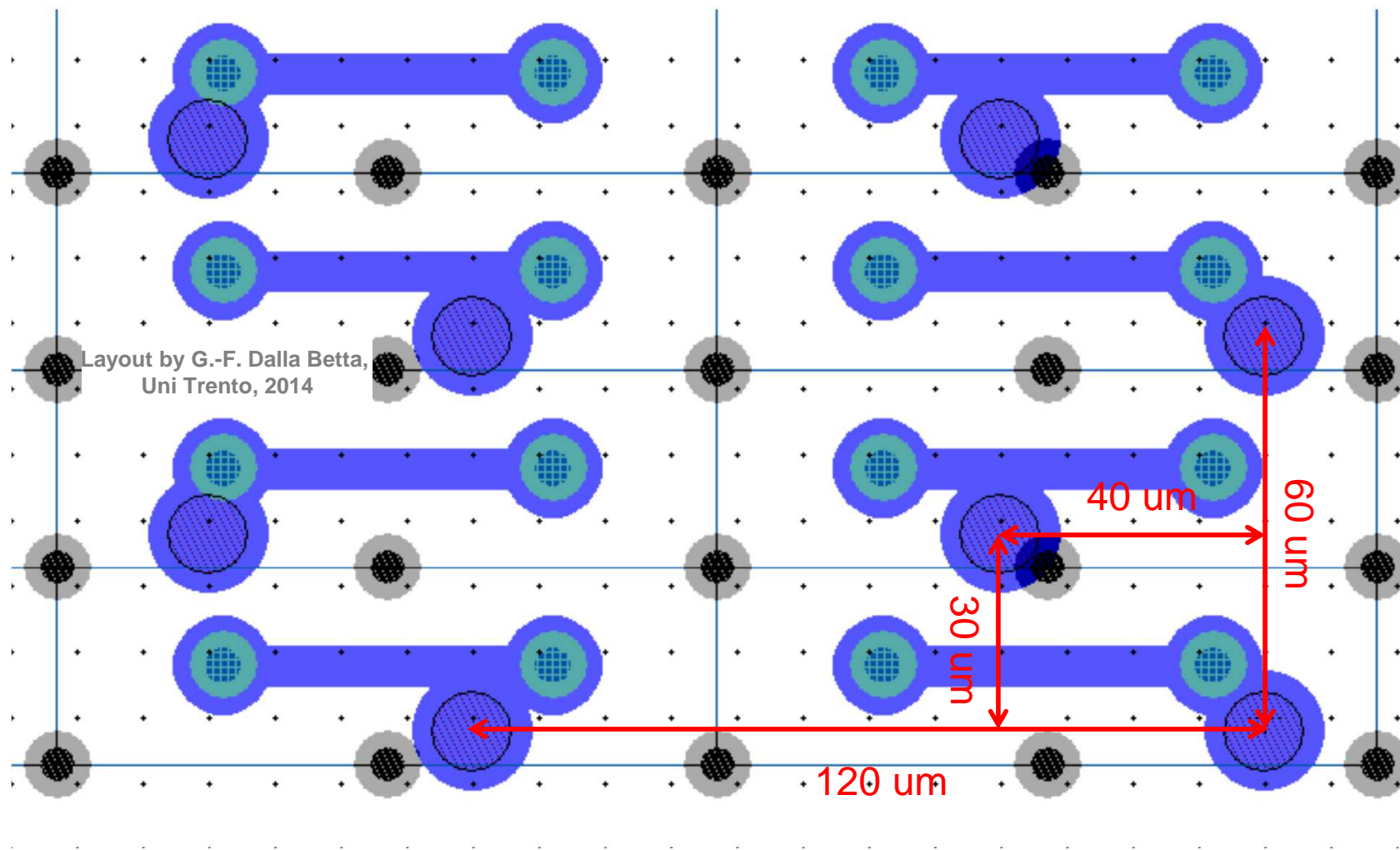
BUMP PADS RD53 (3): 50 x 50 (1E)

Compatible with options 1 and 2



FERMILAB CHIP (1): 100 x 30 (2E)

It could be compatible if bumps could sit on columns ...





FERMILAB CHIP (2): 100 x 30 (1E)

Compatible, although not so nice

