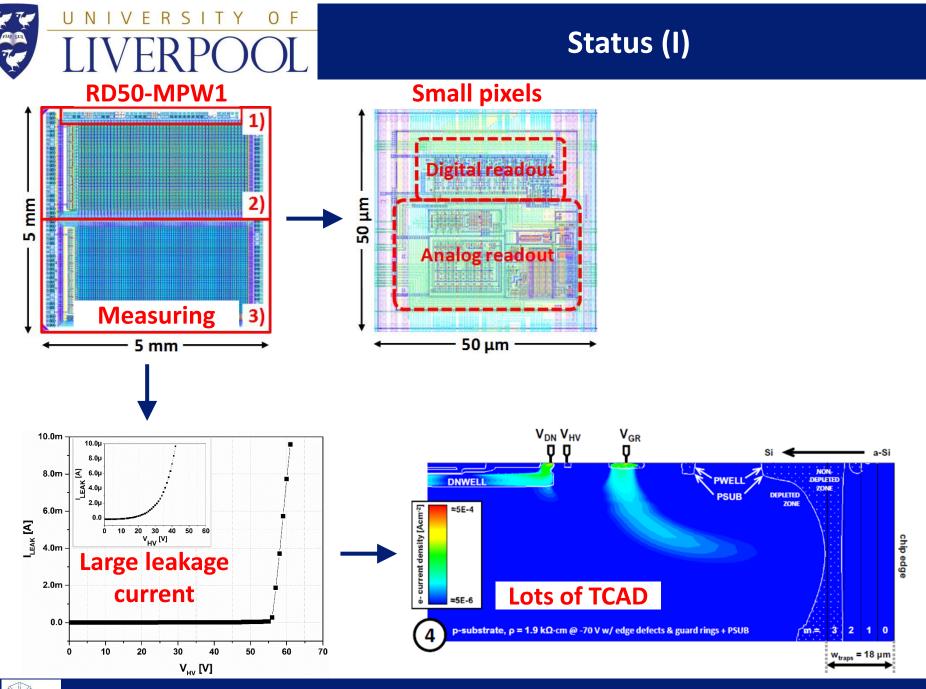


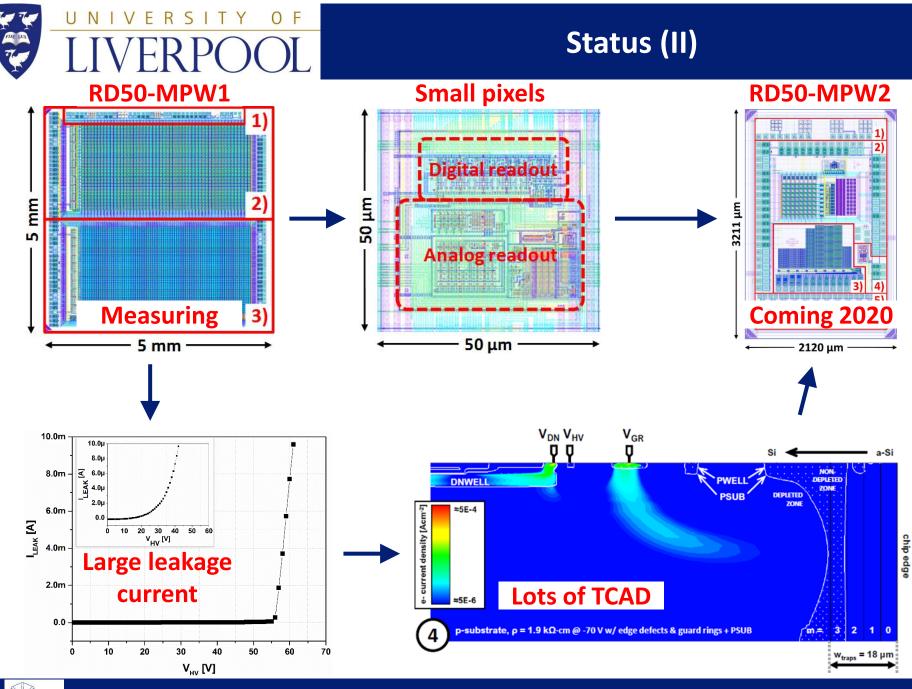
CMOS – Discussion

<u>Eva Vilella</u>

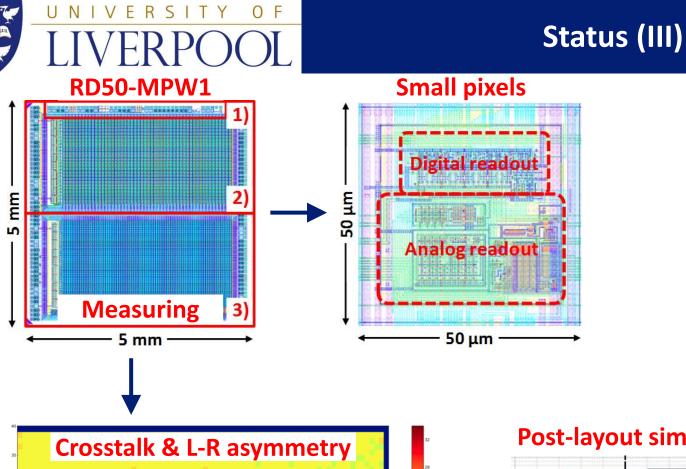
University of Liverpool Department of Physics Oliver Lodge Laboratory Oxford Street Liverpool L69 7ZE

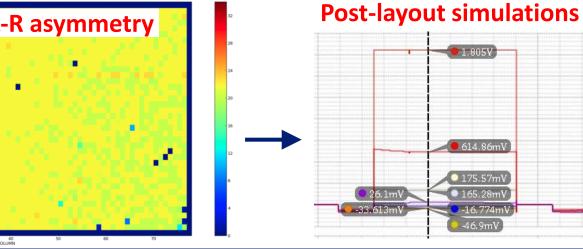
vilella@hep.ph.liv.ac.uk



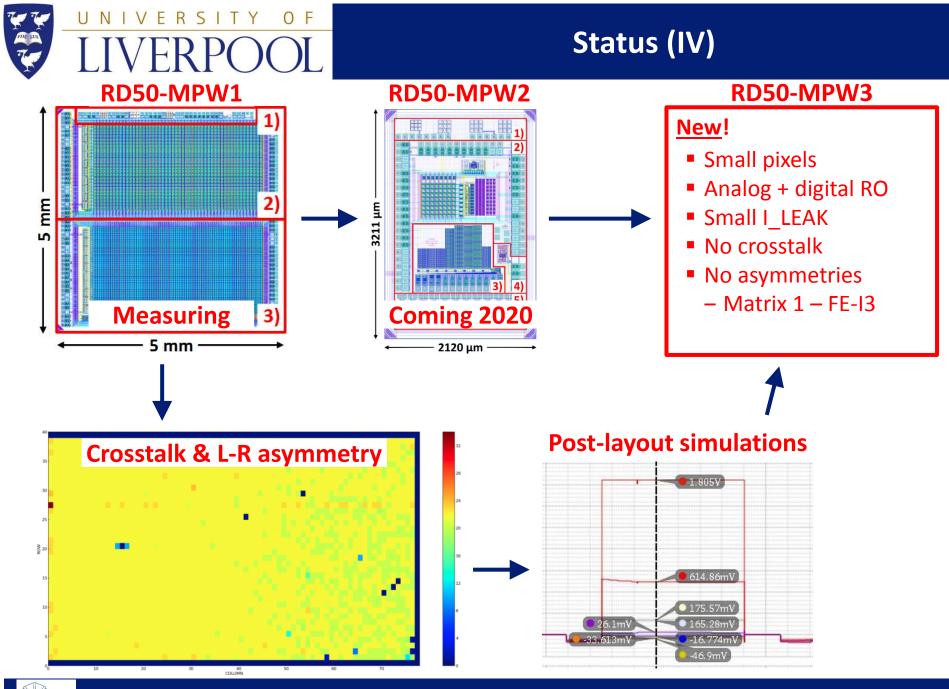


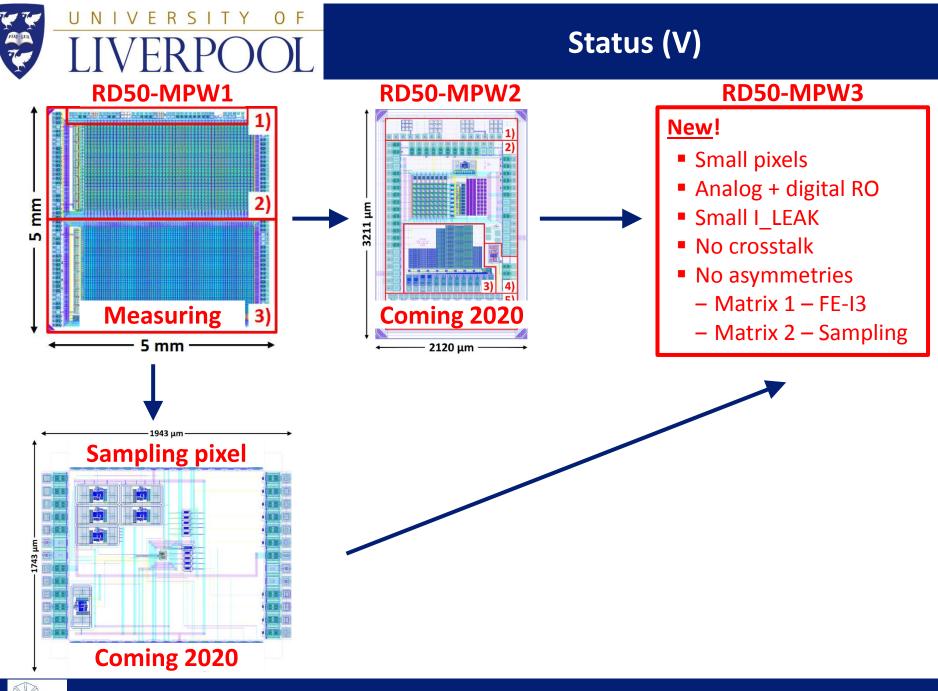
18-20 November 2019 – CERN













- LFoundry has improved their manufacturing system
 - In 2019
 - The production was stopped for some time
 - It has affected the production schedule of RD50-MPW2 and of the sampling chip
- Since October 2019, they are back to their usual volume production level
 - RD50-MPW2 will be delivered in January 2020 and the sampling chip a bit later in the spring of 2020



MPW schedule for 2020

LF15A		
Run ID	Tape In	Est. Ship date
C15D20	06.04.2020	02.08.2020
C15G20	20.07.2020	15.11.2020
C15K20	02.11.2020	28.02.2021



WP3.3: CMOS and monolithic devices



• WP 3.3. CMOS and monolithic devices

- M1: Characterization of the diodes and readout electronics of unirradiated and irradiated RD50-MPW1 samples (Q4/2018).
- M2: Design and submission for fabrication of RD50-ENGRUN1 (Q4/2018).
- M3: Characterization of unirradiated and irradiated RD50-ENGRUN1 samples (Q3/2019, Q3/2020).
- M4: Characterization of irradiated backside biased RD50-ENGRUN1 samples for operation beyond 10¹⁶ n_{eq}/cm² (Q4/2020).
- **M5**: Studies of stitching process options (Q4/2021).
- M6: Characterization of unirradiated and irradiated stitched samples (Q4/2022).

milestones

1

WP3.3: CMOS and monolithic devices



<u>Status</u>:

- M1: Characterization of the diodes and readout electronics of unirradiated and irradiated RD50-MPW1 samples (Q4/2018). → <u>Achieved</u>
- New intermediate milestone M1.2: Design and submission of RD50-MPW2 (Q1/2019). → <u>Achieved</u>
- New intermediate milestone M1.3: Characterization of unirradiated and irradiated RD50-MPW2 samples (Q4/2019, Q1/2020). → <u>Developing DAQ at the moment</u>
- M2: Design and submission for fabrication of RD50-ENGRUN1 (Q4/2018). → Ongoing
- M3: Characterization of unirradiated and irradiated RD50-ENGRUN1 samples (Q3/2019, Q3/2020). → <u>Postponed</u>
- M4: Characterization of irradiated backside biased RD50-ENGRUN1 samples for operation beyond 10¹⁶ n_{eq}/cm² (Q4/2020).
- **M5:** Studies of stitching process options (Q4/2021).
- M6: Characterization of unirradiated and irradiated stitched samples (Q4/2022).

milestones