## Detector Modelling Workshop 2021 (DeMo)



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## Tearing and mitigation in the LSST Focal Plane

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In the baseline operating mode, flat-field images taken with the 16-channel, 16 Mpix Teledyne-e2v CCD sensors of the LSST camera exhibit tearing, and other related effects caused by lateral distortions in the sensor drift field. These particular distortions are explained by the non-uniform distribution of holes in the channel stops between sensor columns, which has been modelled. After assembly of the full focal plane, we have tested several mitigation strategies, with some practical limitations due to our sensors and readout electronics. Our results highlight additional effects originating at the boundaries of the image area.

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