## **Cosmology and Particles, June 12-14**



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## Two dimensional chiral anomaly in Very Special Relativity

Thursday 13 June 2019 10:30 (25 minutes)

We discuss the Schwinger model in the formalism of Very Special Relativity. Although there is not mass from spontaneous symmetry breaking, there is a mass term coming from the SIM(2) invariant terms and the axial current stills conserved in this case. It is shown that the current when the fermion is coupled to an external electromagnetic field is modified due to the non local operator present in the theory. Finally, a new term in the chiral anomaly is present in the computation.

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