

UNIVERSIDADE FEDERAL DE SÃO CARLOS  
DEPARTAMENTO DE MATEMÁTICA

## COLÓQUIO 2017

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Falará sobre

### Charge quantisation without magnetic poles: a topological approach to electromagnetism

We provide a theoretical explanation for the quantisation of electric charges, an open problem since Millikan's oil drop experiment in 1909. This explanation is based solely on Maxwell's theory and it recasts Electromagnetic Theory under the language of complex line bundles; therefore, neither magnetic poles nor quantum mechanics are invoked.

Quarta-feira, 25 de outubro de 2017, às 16 h no Auditório