

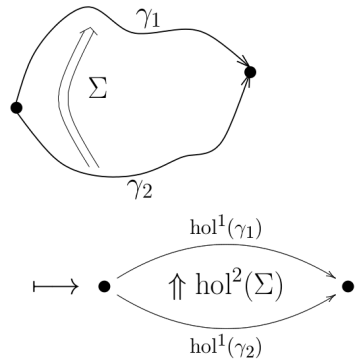
# Workshop on Higher Gauge Theory: Where should we look for higher gauge matter? (From emerging physics and topological quantum computing to string and M-theory)

Where to look for higher gauge phenomena in nature (and in abstraction)?

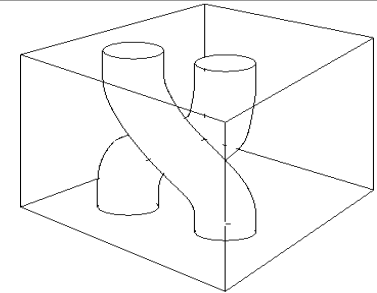
[University of Leeds](#): 28 February 2018 (14:00) - 2 March 2018 (18:00)

**Speakers:**

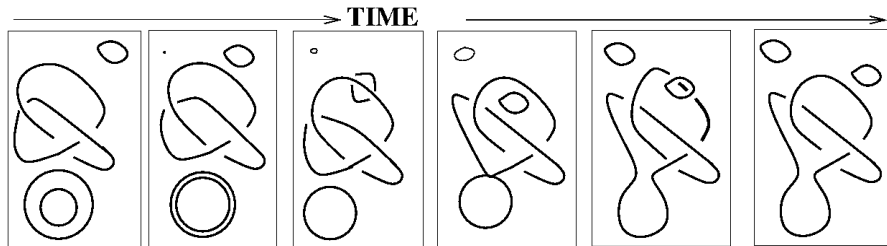
- [Aleksandar Mikovic \(Lusofona Lisbon University and GFMUL\)](#)
- [Branislav Jurčo \(Charles University in Prague\)](#)
- [Catherine Meusburger \(Erlangen-Nürnberg\)](#)
- [Celeste Damiani \(Osaka City University\)](#)
- [Jamie Vicary \(Birmingham and Oxford\)](#)
- [Eric Rowell \(Texas A&M University\)](#)
- [Roger Picken \(University of Lisbon\)](#)
- [John Huerta \(University of Lisbon\)](#)
- [Christian Saemann \(Heriot Watt\)](#)
- [Volodymyr Mazorchuk \(Uppsala\)](#)
- [Vanessa Miemietz \(East Anglia\)](#)
- [Alexander Bullivant \(Leeds\)](#)
- [Roberto Zucchini \(Bologna\)](#)
- [Bianca Dittrich \(Perimeter\)](#)
- [John Barrett \(Nottingham\)](#)
- [André Henriques \(Oxford\)](#)
- [Satoshi Sasaki \(Leeds\)](#)
- [Jiannis Pachos \(Leeds\)](#)
- [Steve Simon \(Oxford\)](#)
- [Almut Beige \(Leeds\)](#)
- [Martin Wolf \(Surrey\)](#)



Surface holonomy along the surface  $\Sigma$



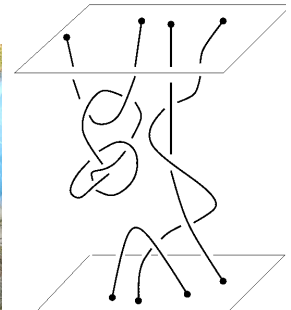
Loop-particles moving in 2D space



Anyonic loops moving in 3D space



Ice patterns at [Ilkey Moor](#)



Anyons moving in 2D space

**Organising Committee:**

- João Faria Martins (Leeds)
- Fiona Torzewska (Leeds)
- Paul Martin (Leeds)