EPSRC
Engineering and Physical Sciences Research Council

Modern Mathematics of Quantum Theory

York 5-7 September 2017

UNIVERSITY of York

05/09/2017		
9:00 – 9:30	K/G/33	Registration
9:30 – 9:35	K/133	Welcome
9:35 – 10:25	K/133	**Christoph Schweigert:** *Coends, a Lego-Teichmüller game and correlators in (non-)semisimple conformal field theory*
10:35 – 11:00	K/G/33	Coffee break
11:00 – 11:50	K/133	**Owen Gwilliam:** *Factorization algebras from perturbative quantum field theory*
12:00 – 14:00		Lunch break
14:00 – 14:50	K/133	**Marco Benini:** *The operad of algebraic quantum field theory*
15:00 – 15:50		**Alexander Schenkel:** *The stack of Yang-Mills fields*
16:00 – 16:30	K/G/33	Coffee break
16:30 – 17:20	K/133	**Alberto Cattaneo:** *Geometrical construction of reduced phase spaces*
17:30 – 18:00		Open discussion
19:00		Social evening in “Ye Olde Starre Inne”

06/09/2017		
9:30 – 10:20	K/133	**Estanislao Herscovich:** *Some mixture conditions of monoidal structures appearing in Quantum Field Theory*
10:30 – 11:00	K/130	Coffee break
11:00 – 11:50	K/133	**Viet Nguyen Dang:** *Spectral analysis of Morse-Smale flows*
12:00 – 14:00		Lunch break
14:00 – 14:50	K/133	**Klaus Fredenhagen:** *Deformation quantization of the massless free scalar field in 2 dimensions, and the massless Thirring model*
15:00 – 15:50		**Dorothea Bahns:** *The Quantum Sine-Gordon model in pAQFT*
16:00 – 16:30	K/130	Coffee break
16:30 – 17:20	K/133	**Claudio Dappiaggi:** *On the algebraic quantization on AdS spacetime*
17:30 – 18:00		Open discussion

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9:30 – 10:20	K/133	**Giuseppe Ruzzi:** *An algebraic approach to the quantum electromagnetic field*
10:30 – 11:00	K/130	Coffee break
11:00 – 11:50	K/133	**Michael Müger:** *On orbifold conformal theories and bimodule categories*
12:00 – 14:00		Lunch break
14:00 – 14:50	K/133	**Daniela Cadamuro:** *Direct construction of pointlike observables in the Ising model*
15:00 – 15:50		**Gandalf Lechner:** *Yang-Baxter representations of the infinite symmetric group*
16:00 – 16:30	K/130	Coffee break
16:30 – 17:20	K/133	**Nicola Pinamonti:** *Thermal states in perturbative algebraic quantum field theory: stability, relative entropy and entropy production*
17:30		Closing remarks