

# WINTER BRAIDS II

## School on algebraic and topological aspects of braid groups

University of Caen,  
12th–15th December 2011

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• Organizing committee: P. Bellingeri (Univ. Caen), E. Godelle (Univ. Caen), V. Florens (Univ. Pau).

Supports: Laboratoire LMNO, GDR Tresses, ANR projects Interlow, TheoGar and VasKho

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### Program<sup>1</sup>

#### Monday 12th December

9h30–10h00 welcome (Room S3-247)

10h00–11h00 P. Dehornoy *Ordering braids I*

11h15–12h15 V. Florens, *Concordance of links and signatures I*

12h15–14h lunch

14h–15h J. Bichon, *Braids, quantum groups and ribbon categories I* (Room S3-122)

15h15–16h15 J-B. Meilhan, *Finite type invariants of knotted objects I* (Room S3-122)

16h15–16h45 coffee (Room S3-247)

16h45–17h15 T. Ito, *The openbook foliation method* (Room S3-122)

17h15–17h45 I. Diamantis, *Toward the 3rd skein module of  $L(p,q)$*  (Room S3-122)

#### Tuesday 13th December

9h00–10h00 V. Florens, *Concordance of links and signatures II*

10h00–10h30 coffee (Room S3-247)

10h30–11h30 J. Bichon, *Braids, quantum groups and ribbon categories II*

11h30–13h30 lunch

13h30–14h30 J-B. Meilhan, *Finite type invariants of knotted objects II*

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<sup>1</sup>The talks will take place in Campus II, building S3, Amphitheater 057, except Monday afternoon

14h45–15h45 P. Bellingeri , *Mc Cool's groups I*

15h45–16h15 coffee (Room S3-247)

16h15–16h45 D. Moussard, *Finite type invariants of rational homology 3-spheres*

16h45–17h15 A. Telloni, *Manifolds from Platonic and Archimedean solids*

17h15–17h45 E. Panagiotou, *A study of the entanglement in systems with periodic boundary conditions*

## Wednesday 14th December

9h00–10h00 J.B. Meilhan, *Finite type invariants of knotted objects III*

10h00–10h30 coffee (Room S3-247)

10h30–11h30 P. Dehornoy, *Ordering braids II*

11h30–13h30 lunch

13h30–14h30 P. Dehornoy, *Ordering braids III*

14h45–15h45 J. Bichon, *Braids, quantum groups and ribbon categories III*

15h45–16h15 coffee (Room S3-247)

16h15–16h45 P. Humbert, *Surface tangles and genus  $g$  structures over a ribbon category*

16h45–17h15 D. Goundaroulis, *Yokonuma-Temperley-Lieb algebras*

17h15–17h45 V. Shastin, *Pseudocharacters on braid groups*

17h45–18h15 A. Kalka, *Conjugacy in braid groups and related problems*

## Thursday 15th December

9h00–10h00 P. Bellingeri , *Mc Cool's groups II*

10h00–10h30 coffee (Room S3-247)

10h30–11h30 P. Dehornoy, *Ordering braids IV*

11h30–12h30 V. Florens, *Concordance of links and signatures III*

12h30–14h00 lunch

14h00–14h30 B. Collas, *Grothendieck-Teichmüller theory and stack inertia of moduli spaces of curves: mapping class groups, braids and torsion*

14h30–15h00 H. Queffelec, *Categorification of the Jones-Kauffman algebra of the thickened torus*

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