

WORKSHOP «Non semisimple quantum invariants»

Les Diablerets, 24–27 août 2014

Organisation: Anna Beliakova, Christian Blanchet

Program

Monday 25

- 09:00–10:30 Marco De Renzi
Quantum invariants of 3-manifolds arising from non-semisimple categories
- 10:45–12:15 Bertrand Patureau
Quantum $sl(2)$, nilpotent representations and modified trace
- 16:00–17:30 Christian Blanchet
TQFT, the universal construction
- 17:45–19:15 Delphine Moussard
Non semisimple quantum invariants

Tuesday 26

- 09:00–10:30 Bertrand Patureau
Construction of $sl(2)$ non semisimple TQFT
- 10:45–12:15 Christian Blanchet,
Non semisimple TQFT: examples and applications
- 16:00–17:00 Zaur Gulyev
Trace of categorified quantum $sl(n)$
- 17:10–18:40 Krzysztof Putyra
On Webster algebras and categorified representations of quantum $sl(2)$

Wednesday 27

- 09:00–10:00 Kostantinos Karvounis
Casson-Walker-Lescop invariant from the Heegaard splitting of 3-manifolds by counting theta subgraphs
- 10:10–
Discussion of projects and open problems