## Faithful topological quantum field theories

Zoran Petrić<sup>1</sup> and Sonja Telebaković<sup>2</sup>

<sup>1</sup>Mathematical Institute SANU, Knez Mihailova 36, p.f. 367, 11001 Belgrade, Serbia, zpetric@mi.sanu.ac.rs
<sup>2</sup>University of Belgrade, Faculty of Mathematics, Studentski trg 16, 11000 Belgrade, Serbia, sonjat@matf.bg.ac.rs

It is evident that one aspect of topological quantum field theories (TQFTs) concerns with the corresponding invariants of manifolds. However, the completeness of these invariants is seldom investigated in the literature. This talk is about faithful one and two dimensional TQFTs and its aim is to foreshadow some possible results concerning higher dimensions.

## References

- Dj. Baralić, Z. Petrić and S. Telebaković, Spheres as Frobenius objects, available at ArXiv (2016).
- [2] Z. Petrić and S. Telebaković, A faithful 2-dimensional TQFT, available at ArXiv (2017).
- [3] S. Telebaković, On the faithfulness of 1-dimensional topological quantum field theories, available at ArXiv (2017).