Algebraization of Low-Dimensional Topology

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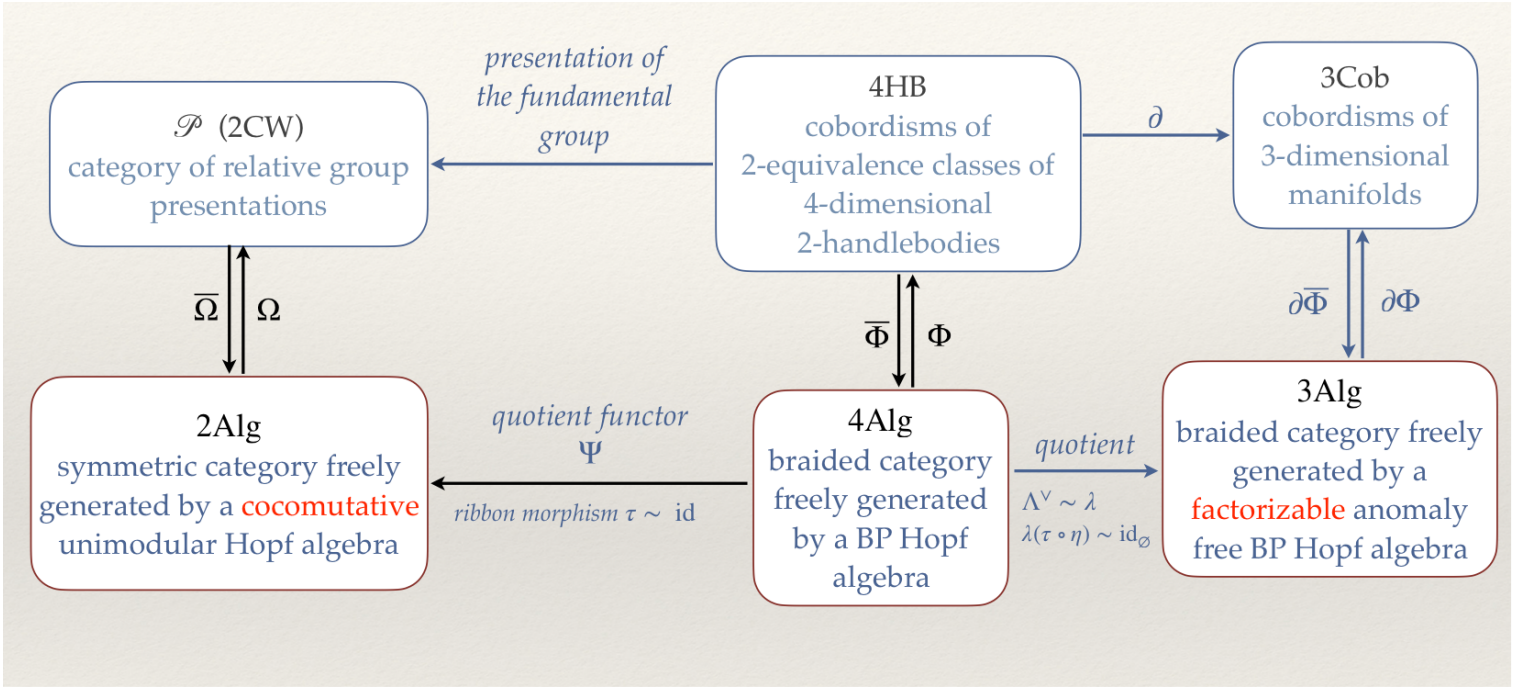
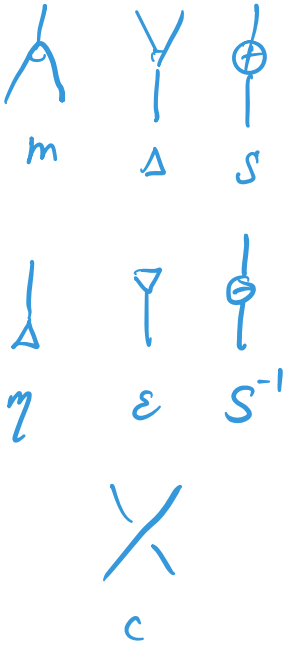
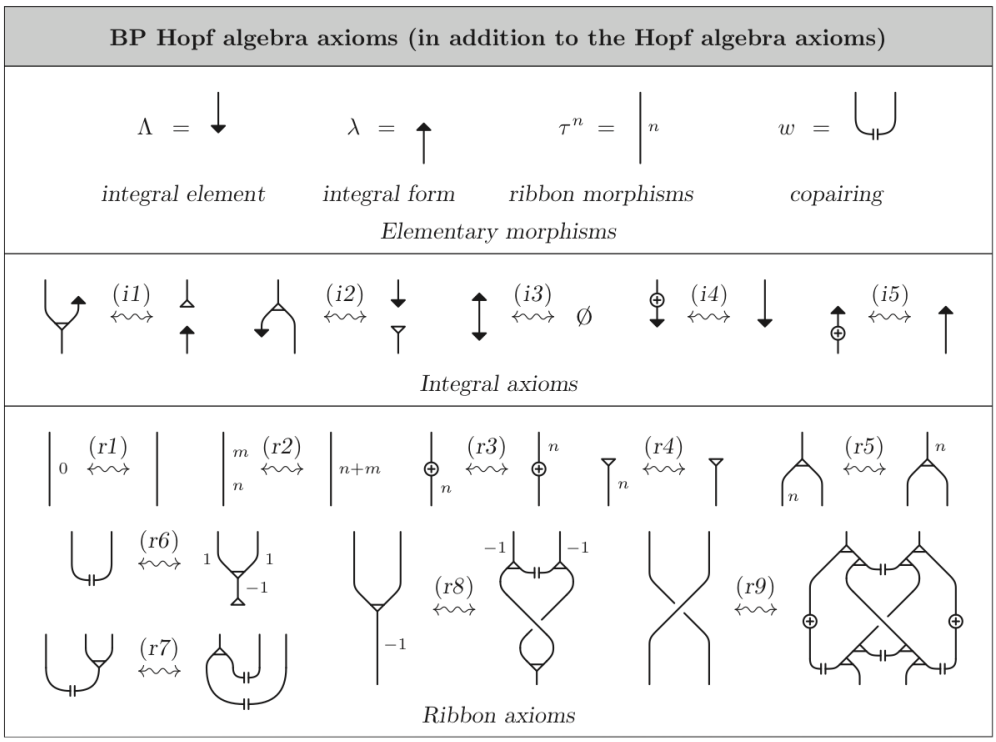
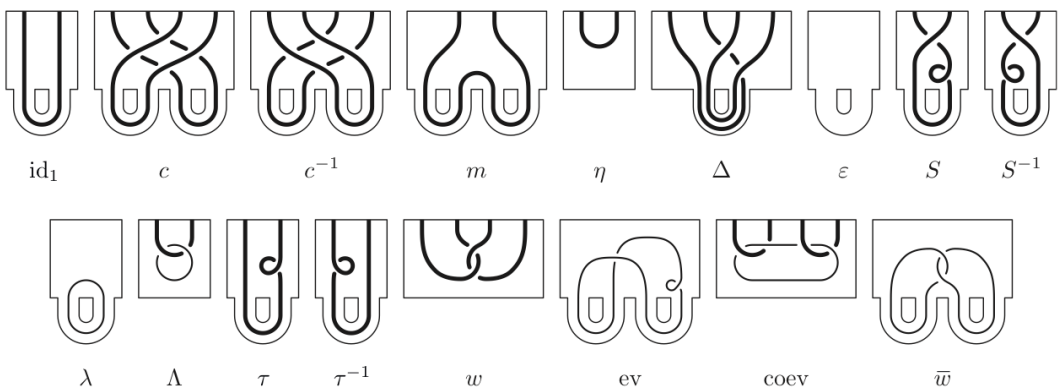
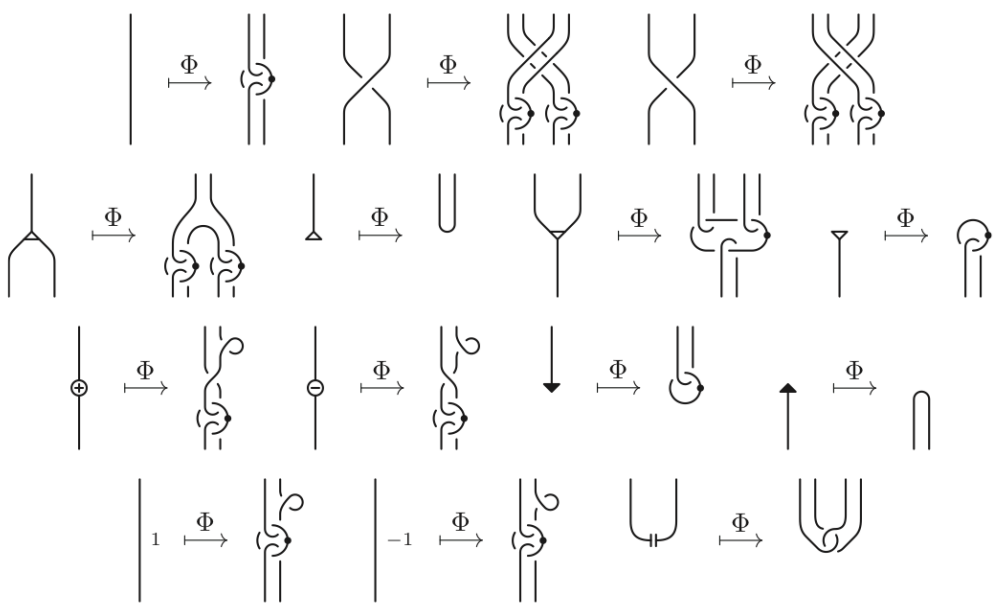
Thm: The functors Ω, Φ and $\partial\Phi$ are equivalences of categories. Moreover, the following diagram commutes.







BP generators in 3Cob



BP generators in 4HB in terms of Kirby diagrams