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SymTFTs for U(1) symmetries from descent

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Recently, the notion of symmetry descent has been introduced in order to obtain the (d+1)-dimensional Symmetry TFT (SymTFT) of a d-dimensional QFT from the edge mode behaviour of a theory in (d+2)-dimensions. This method has so far been used to obtain SymTFTs for discrete higher-form symmetries of geometrically engineered QFTs. In this note, we extend the symmetry descent procedure to obtain SymTFTs for U(1) higher-form symmetries of geometrically engineered QFTs. We find the resulting SymTFTs match those in the works of Antinucci-Benini and Brennan-Su.

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