Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1107.3608

Search or Article-id

(Help | Advanced search)

All papers | Go!

Mathematics > Category Theory

Partially traced categories

Octavio Malherbe, Philip J. Scott, Peter Selinger

This paper deals with questions relating to Haghverdi and Scott's notion of partially traced categories. The main result is a representation theorem for such categories: we prove that every partially traced category can be faithfully embedded in a totally traced category. Also conversely, every symmetric monoidal subcategory of a totally traced category is partially traced, so this characterizes the partially traced categories completely. The main technique we use is based on Freyd's paracategories, along with a partial version of Joyal, Street, and Verity's Int-construction.

Submission history

Which authors of this paper are endorsers?

Download:

- PDF
- PostScript
- Other formats

Current browse context:
math.CT
< prev | next >
new | recent | 1107

Change to browse by:

math

References & Citations

- NASA ADS

Bookmark(what is this?)