



Centro de Matemática
Universidade do Porto

Seminar on Semigroups, Automata and Languages

Representation theory of right restriction Ehresmann semigroups with corresponding EI-Ehresmann category

Itamar Stein

Shamoon College of Engineering, Israel

Abstract: In this talk, we consider the class of finite right restriction Ehresmann semigroups whose associated Ehresmann category is an EI-category (i.e., every endomorphism is an isomorphism). We give a description of the simple modules of such semigroups using induced left Schützenberger modules. We also show that the indecomposable projective modules can be described in a similar way but using generalized Green's relations instead of the standard ones. If time allows, we will consider in greater depth a natural example - the monoid PT_n of all partial functions on an n -element set.

This is a joint work with Stuart Margolis.

Date: Friday, 23 October 2020, 11:00 AM

Place: Online Zoom meeting



Com o apoio do projeto UIDB/00144/2020