Closure by bi-orthogonality : an unifying tool for classification theory

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⋆ Supported by Action Capes-Cofecub Sh-873 17

In the recent decades, the closure by bi-orthogonality methodology underwent an increasing spread at the interface between Computing theory and Logic, being notably used to define the notion of *type* (as sets of processes closed by bi-orthogonality, for an orthogonality binary relation between processes and contexts defined in terms of the computational dynamic).

In this talk, we will analyse the typing by bi-orthogonality methodology from a more general, unifying point of view, where orthogonality is defined w.r.t. any binary relation R (i.e. independently of any dynamical perspective). In particular, we will see how one recovers the main classical concepts of Theory of classification by varying the particular properties of the relation R.