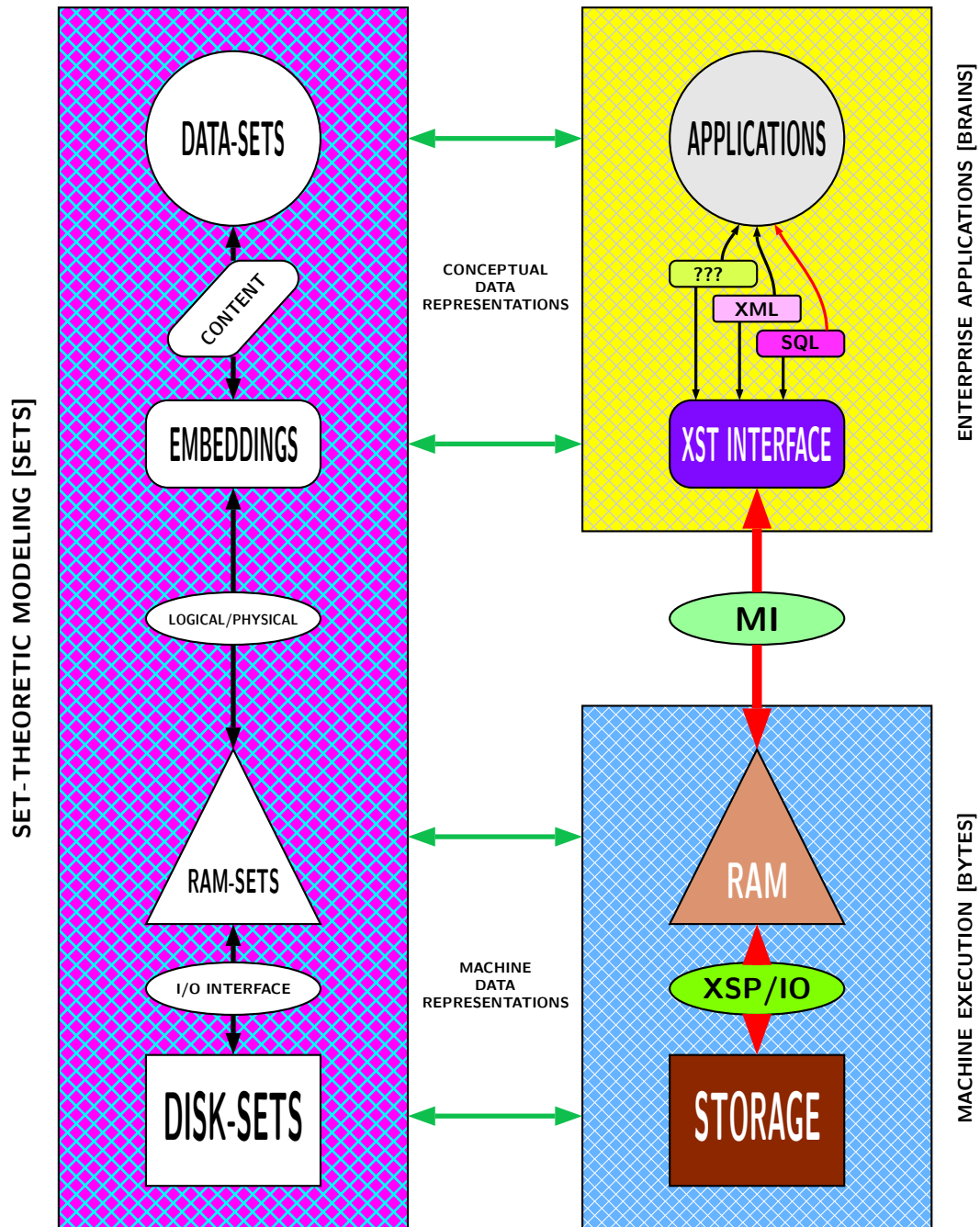


FORMAL MODELING OF XSP SYSTEMS

All Data Representations Treated As Mathematical Objects



ALL ARROWS PRESERVE MATHEMATICAL IDENTITY (SET-MEMBERSHIP).

XSP (Extended Set Processing) Technology is a formal design and development discipline based on manipulating data by its intrinsic mathematical identity instead by some chosen data representation. XSP system implementations are characterized by an XST interface where all operations mapping the mathematical identity (MI) of data between conceptual and machine representations are explicitly expressed in terms of XST. Though not necessary to qualify as an XSP system, high performance systems may incorporate an XSP/IO between RAM and secondary storage.