

INSTITUTUL DE MATEMATICĂ “SIMION STOILOW” AL ACADEMIEI ROMÂNE

Logic Seminar

Paraconsistent Logic, the Square of Opposition and Universal Logic

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IMAR, amfiteatrul “Miron Nicolescu”, parter

Abstract: In this talk I will explain how I have started my research in mathematical logic on paraconsistent logics, logics which rejected the principle of non contradiction, mainly developed by the Brazilian logician Newton da Costa. These logics are challenging both from the mathematical and the philosophical point of view, the question is to have a proper understanding of the notions of contradiction and negation. The theory of oppositions emerging from the square of opposition is a useful tool giving a general perspective that is fully reached in the realm of universal logic, a general theory of logical systems that has been developed these last 20 years.