ENCOUNTERS THROUGH MATRICES

VALERIA SIMONCINI

ABSTRACT. Matrices are an important building block in the numerical treatment of partial differential equations. Depending on the adopted discretization methodology, matrices with special structural or spectral properties arise. Exploiting these possibly hidden features can significantly enhance the understanding and effectiveness of the underlying discretization method. Conversely, insightful encounters with PDE specialists can take to a deeper understanding of the role of matrices and their computations in different contexts, leading to a mutually enriching collaboration.

This talk will tell one such successful story.

DIPARTIMENTO DI MATEMATICA, ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA, PIAZZA DI PORTA SAN DONATO 5, 40126 BOLOGNA, ITALY

Email address: valeria.simoncini@unibo.it