



CERTIFICATE



This is to certify that

ANDRÉ LEROY

has attended the CIMPA RESEARCH SCHOOL Algebraic methods in Coding Theory, held from July 2nd to July 15th, 2017 at the Wembley Inn Hotel in Ubatuba – SP, Brazil, and has given a talk entitled

Decomposition of singular nonnegative matrices into product of nonnegative idempotents.

São Paulo, July 15, 2017

César Polcino Millies