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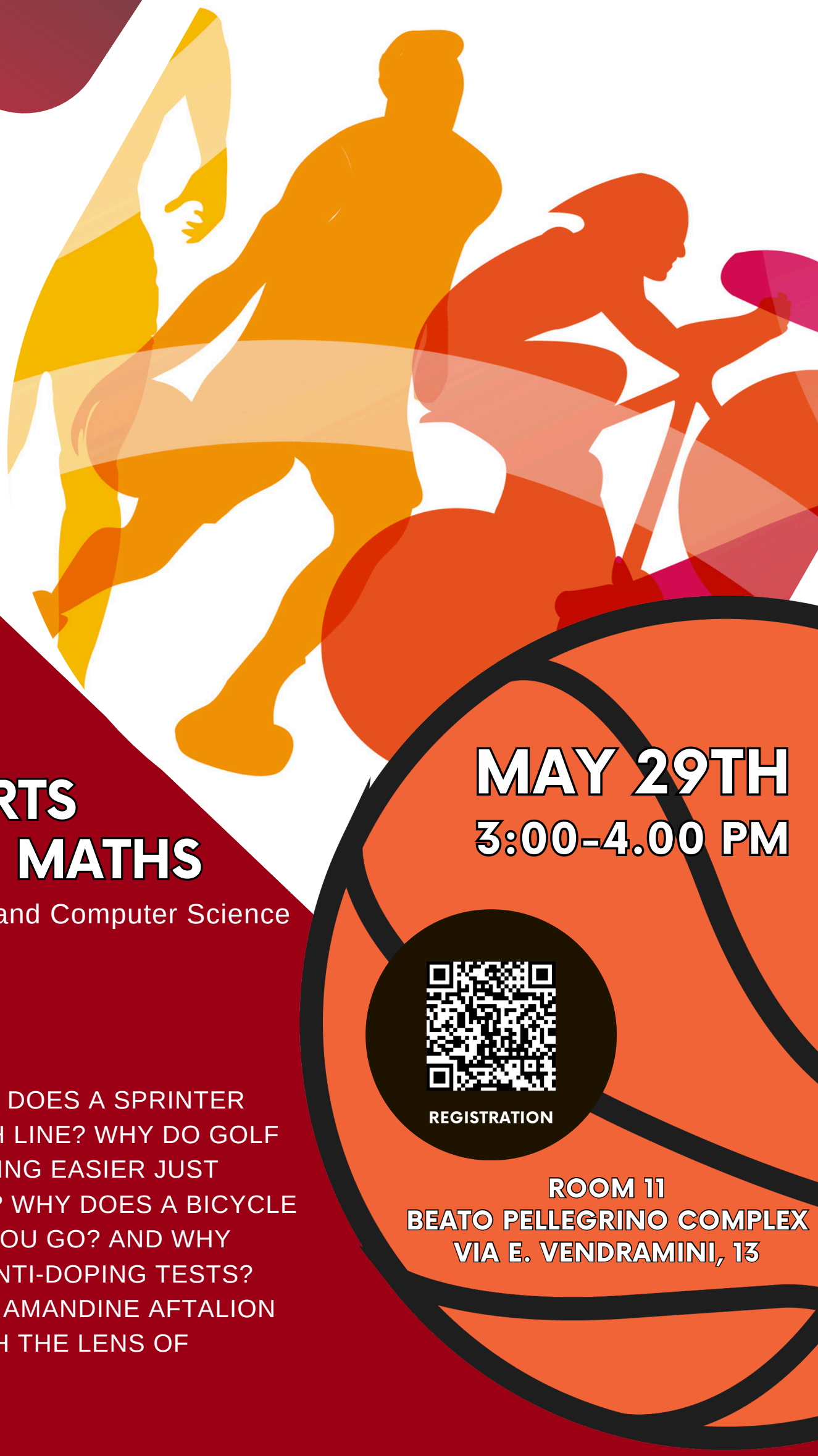

HOW TO BE A SPORTS CHAMPION USING MATHS

An accessible lecture in Mathematics and Computer Science

MAY 29TH
3:00-4.00 PM

REGISTRATION

ROOM 11
BEATO PELLEGRINO COMPLEX
VIA E. VENDRAMINI, 13

ABSTRACT

WHY DO WE LEAN INTO CURVES? WHY DOES A SPRINTER SLOW DOWN JUST BEFORE THE FINISH LINE? WHY DO GOLF BALLS HAVE DIMPLES? WHY IS SWIMMING EASIER JUST BELOW THE SURFACE OF THE WATER? WHY DOES A BICYCLE BECOME MORE STABLE THE FASTER YOU GO? AND WHY SHOULDN'T WE RELY TOO MUCH ON ANTI-DOPING TESTS? THESE ARE SOME OF THE QUESTIONS AMANDINE AFTALION EXPLORES IN THIS LECTURE-THROUGH THE LENS OF MATHEMATICS.

AMANDINE AFTALION IS A RESEARCH DIRECTOR AT CNRS. A FORMER STUDENT OF THE ÉCOLE NORMALE SUPÉRIEURE IN PARIS, SHE WORKS AT THE INTERSECTION OF MATHEMATICS AND PHYSICS. SHE IS KNOWN FOR HER RESEARCH ON BOSE3EINSTEIN CONDENSATES AND ON RUNNING PERFORMANCE, AND SHE IS ACTIVELY ENGAGED IN SCIENCE OUTREACH, NOTABLY THROUGH THE YOUTUBE CHANNEL VIDEODIMATH.
SHE IS THE AUTHOR OF THE BOOK "BE A CHAMPION. 40 FACTS YOU DIDN'T KNOW ABOUT SPORTS AND SCIENCE", SPRINGER (2024).

PROF. AMANDINE AFTALION
Research director at CNRS

THE ORGANIZERS: L. CARAVENNA, C. MARICONDA