

# Appuntamento con la Matematica ...10 anni dopo!

Dedicato a Giuliana Palmieri

Bari, 14 Luglio 2023

## Programma

09:15 *Welcome*

09:30-10:10 Vieri Benci

### *Numbers and numerisities*

In this talk we analyze the notion of number and we define the structure of **counting system**. In this context, we present the notion of **numerosity** as a natural extension of the **cardinality**.

This presentation is possible thanks to a theorem which has been recently proved.

10:15-10:55 Giuseppe De Cecco

### *Elogio dello "scarto"*

Nell'intento di trasferire concetti propri della Geometria differenziale a spazi più generali, si sono considerati insiemi con distanza generalizzata, lo "scarto", che esprime il concetto familiare di deviazione. Nonostante la povertà del mezzo, si raggiungono risultati di un certo interesse.

11:00-11:30 *Coffee Break*

11:30-12:10 Dimitri Mugnai

### *On some classes of mixed operators*

We will report on recent results about some different classes of mixed operators, having the common features that they are the sum of local and non local ones.

12:15-12:55 Anna Maria Candela

### *A quasilinear PDE: brief history of a problem*

Since the pioneer paper published in 2006, a new variational approach has been developed in order to prove existence and multiplicity results for some models of quasilinear PDEs with the coefficient of the principal part which depends on the solution itself.

The interaction of two different norms on an intersection Banach space is exploited so to generalize classical variational tools.