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**UNIVERSITÀ  
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Matematica

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# Beyond the Usual Playing

## April - May 2024

The event is supported by BUP and the Department of Mathematics, with the collaboration of Ludimus, MUSE - Museo delle Scienze di Trento and FabLab UniTrento

### 3 April

#### Walks on the Hexagon

In the 1940s Piet Hein and John Nash invented a two-players game over an hexagonal board called Hex. The study of winning strategies is deeply related to fascinating mathematical results. **Angelo Valente** (research fellow, Dept. of Mathematics) will help us to connect the game of Hex with concepts in topology and mathematical analysis.

**Games to play: Chomp, Hex, TwixT**

### 17 April

#### Decode or Lose

**Riccardo Longo** (Ludimus & research fellow, FBK) will let us discover games that revolve around the mechanic of encrypted messages, requiring players to encode/decode them.

Participants will be challenged in both cooperative efforts to decipher messages through trial and error, aided by technical feedback, and competitive team play where the goal is to convey the message accurately to your team while making it cryptic to the opposite team.

**Games to play: Mastermind, Decrypto, Primo Contatto, Cryptid, It's a Bomb**

### 15 May

#### Sudoku ergo sum

A game night dedicated to logical-deductive reasoning and sequential solving of numerical puzzles. Some games in this genre include Sudoku and its variants, as well as logic grids. Team up with your friends and get ready for the challenge!

**Games to play: Sudoku variants, logic grids**

### 10 April

#### AI at play

In pure strategic board games with no random elements, the number of possible configurations grows rapidly, requiring a complicated and careful search for the optimal move. Games with high complexity offer an interesting playground for strategic thinking and AI developments. **Alessandro Pini** (Ludimus & master student, Dept. of Information Engineering and Computer Science) will help us to see how games like Go and Quoridor have been analyzed by AI.

**Games to play: Quoridor, Hive**

### 8 May

#### Find your strategy

**Luigi Amedeo Bianchi** (Associate Prof., Dept. of Mathematics) will introduce us to combinatorial board games.

These games prioritize tactical and strategic combinations, stressing the importance of analyzing moves or resources to maximize strategic advantage. They are characterized by essential rules, emergent complexity, and the need for mental acuity and long-term strategic vision.

**Games to play: Hive, Onitama, War Chest, Tuned**

For any question or desire for further information you can refer to the organizers:

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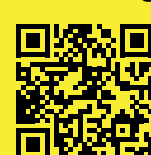
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**The events will be held in the reading room "Omerti", BUP, 6 pm to 8 pm.**

Participation in the meetings is open to the UniTrento community upon reservation, available through the following form: <https://forms.gle/2zeapQM8FzLCUAjj8>



or at the BUP Circulation desk.

The meetings will take place in **Italian language**. English language support will be available as well during the gaming session.

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