**10 Answerable Questions with Timestamps**

 **What is the 15-puzzle game and why is it relevant to combinatorial reconfiguration?**  
📍 *Timestamp: ~03:00–05:00*

The speaker explains the 15-puzzle and introduces the reconfiguration graph.

 **What is a reconfiguration graph in the context of one-player games?**  
📍 *Timestamp: ~05:00–06:30*

Explanation of graph nodes as configurations and edges as legal moves.

 **Is the reconfiguration graph of the 15-puzzle always connected?**  
📍 *Timestamp: ~06:30–07:30*

The speaker mentions it's not always connected and gives an example.

 **What does 'God’s number' refer to in this context?**  
📍 *Timestamp: ~08:00–09:00*

It refers to the diameter of the reconfiguration graph.

 **What are token jumping and token sliding problems?**  
📍 *Timestamp: ~01:30–02:00 and later sections*

These are discussed as specific reconfiguration problems.

 **Who are the collaborators mentioned in this research?**  
📍 *Timestamp: ~01:00–01:30*

Valentine Bartier, Nicola Busque, Clement Dalar, and Karl Lohmer.

 **What makes combinatorial reconfiguration problems attractive to researchers?**  
📍 *Timestamp: ~02:00–02:30*

Easy to state, accessible to all levels, and many open questions.

 **What are the four sections of the talk’s outline?**  
📍 *Timestamp: ~01:45–02:15*

Intro to reconfiguration, complexity of token problems, parameterized complexity, technical details.

 **What is the motivation for using puzzles to introduce reconfiguration?**  
📍 *Timestamp: ~03:00–04:00*

Puzzles illustrate configuration spaces in an intuitive way.

 **What is the main decision problem in a reconfiguration context?**  
📍 *Timestamp: ~08:30–09:30*

**❌ 5 Unanswerable but Plausible Questions**

These seem related but are not addressed in thevideo:

1. **What is the time complexity of solving the token sliding problem in general graphs?**
2. **What is the practical application of token jumping in robotics?**
3. **How does the speaker compare token sliding to the Rubik’s Cube in terms of complexity?**
4. **Are there any known polynomial-time algorithms for solving the 15-puzzle in all cases?**
5. **Does the talk include a live demonstration of solving a token reconfiguration problem?**