

Workshop 2 on “Reverse Mathematics: New Paradigms.”**of the Thematic Programme “Reverse Mathematics”****August 4 - 8, 2025****organized by****Juan Aguilera (TU Vienna), Linda Brown Westrick (Penn State U), Noam Greenberg (Victoria U of Wellington), Denis Hirschfeldt (U of Chicago)****• Monday, August 4th, 2025****10:00 – 11:00 Peter Cholak (Notre Dame du Lac)***Coding in the universal n -clique free graph, H_{n+1} : Part I.***11:00 – 11:30 Coffee Break****11:30 – 12:30 Peter Cholak (Notre Dame du Lac)***Coding in the universal n -clique free graph, H_{n+1} : Part II***12:30 – 14:30 Lunch Break****14:30 – 15:30 Jeffry Hirst (App State)***Some conservation results for higher order reverse mathematics***15:30 – 15:50 Coffee Break****15:50 – 16:50 Sam Sanders (Ruhr U, Bochum)***Some new developments in higher-order Reverse Mathematics***• Tuesday, August 5th, 2025****10:00 – 11:00 Paul Shafer (U Leeds)***Revisiting the reverse mathematics of the Tietze extension theorem: preserving suprema***11:00 – 11:30 Coffee Break****11:30 – 12:30 Leszek Kołodziejczyk (U Warsaw)***Scott ranks of models of fragments of PA***12:30 – 14:30 Lunch Break****14:30 – 15:30 Giorgio Genovesi (U Leeds)***Another look at the relation between higher order arithmetic and set theory***15:30 – 15:50 Coffee Break****• Wednesday, August 6th, 2025****10:00 – 11:00 Gavin Dooley (Notre Dame du Lac)***Iterated jump noncomputability and compactness***11:00 – 11:30 Coffee Break**

11:30 – 12:30 **Java Darleen Villano (U of Connecticut)**

Relativized computable categoricity

12:30 – 14:30 **Lunch Break**

14:30 – 15:30 **Andrew DeLapo (U of Connecticut)**

Finding Discrete Subspaces of Hausdorff CSC Spaces

15:30 – 15:50 **Coffee Break**

- **Thursday, August 7th, 2025**

10:00 – 11:00 **TBA**

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **TBA**

12:30 – 17:00 **Discussions (free afternoon)**

- **Friday, August 8th, 2025**

10:00 – 11:00 **TBA**

11:00 – 11:30 **Coffee Break**

11:30 – 12:30 **TBA**

12:30 – 17:00 **Discussions (free afternoon)**

All talks take place at ESI Boltzmann Lecture Hall!