EUROPEAN SET THEORY SOCIETY

2026 Hausdorff Medal of the European Set Theory Society

January 5, 2026

On behalf of the Board of the European Set Theory Society, I am very pleased to congratulate

Dr. Farmer Schlutzenberg

on being selected as the recipient of the **Seventh Hausdorff Medal of the European Set Theory Society** for his paper *"On the consistency of ZF with an elementary embedding from $V_{\lambda+2}$ into $V_{\lambda+2}$", Journal of Mathematical Logic, Vol 25(2) 2025, 2450013*.

The scientific committee consisting of Professor James Cummings (Carnegie Mellon University), Professor Ilijas Farah (York University), Professor Menachem Magidor (Hebrew University of Jerusalem), Professor Justin Moore (Cornell University) and Professor Christian Rosendal (University of Maryland) chose Dr. Schlutzenberg among several truly outstanding nominees. The following is an excerpt from the committee's statement:

In the paper Schlutzenberg gives a totally unexpected result about the relative consistency of cardinals that violate AC and large cardinals which seem to be consistent with AC. A prototypical example of a non AC large cardinals is a Reinhardt cardinal. The cardinal that Schlutzenberg's result applies to is a λ with non trivial $j : V_{\lambda+2} \to V_{\lambda+2}$. For the last fifty years and more, the prevailing feeling was that there were clear dividing lines between large cardinal assumptions consistent with choice, like I_0, and cardinals which emerge from Kunen's proof of the inconsistency with choice of elementary embeddings $j : V_{\lambda+2} \to V_{\lambda+2}$. Schlutzenberg's result that the consistency of $j : V_{\lambda+2} \to V_{\lambda+2}$ follows from the consistency of I_0 was totally unexpected. In fact I_0 is equiconsistent with $j : V_{\lambda+2} \to V_{\lambda+2}$ plus DC_λ. No less surprising were the methods which Schlutzenberg used. He used HOD analysis of fine structural inner models of large cardinals which are much smaller than the cardinals his result applies to. This was also completely unexpected. The results of these papers trigger a rethinking of the theory of very large cardinals and the important HOD conjecture.

The Society sincerely thanks all colleagues for their nominations.

We warmly congratulate Dr. Farmer Schlutzenberg on his remarkable achievements and well-deserved recognition, and we cordially invite colleagues and friends to attend the Hausdorff Lecture and the Hausdorff Medal award ceremony, to be held during the **10th European Set Theory Conference**, 18–22 May 2026, in Helsinki.

With best wishes
Vera Fischer, President, European Set Theory Society