

Question

*Every index is realised by a subfactor with principal graph A_∞ .
Which indices are possible for hyperfinite subfactors?*

- Popa has shown that the smallest index above 4 that can be realised by a hyperfinite II_1 subfactor is the square of the graph norm of E_{10} , approximately 4.02642.
- The waters here are deep, analytic techniques are required, and little is known.