

WEAK DIAMONDS AND THE CLUB PRINCIPLE

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This talk will be about my current work on weak diamonds, which is a continuation of [2] and [1]. We show that some weakenings of the club principle do not imply the existence of a Souslin tree. We show that $\diamond(2^\omega, [\omega]^\omega, \text{ is constant on})$ together with CH and “all Aronszajn trees are special” is consistent relative to ZFC. This implies the analogous result for a double weakening of the club principle.

REFERENCES

- [1] Heike Mildenerger. Creatures on ω_1 and weak diamonds. *To appear in the Journal of Symbolic Logic*, 2008.
- [2] Heike Mildenerger and Saharon Shelah. Specializing Aronszajn trees and preserving some weak diamonds. *Submitted*, 2005.

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