How to get a strongly aperodic SFT in the Grigorchuk group

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Résumé

(exposé au tableau) An action of a finitely generated group over a Cantor set is called effectively closed if there is a Turing machine which recieves as input a cylinder and a generator and computes an effective aproximation of the complement of the image of such cylinder under the generator. I will show that every effectively closed action of a finitely generated group G can be realized as a factor of the G-subaction of an SFT in $G \times H_1 \times H_2$ for any pair of infinite f.g. groups H_1, H_2. As a corollary we obtain that any group of the form $G_2 \times G_3$ admits a strongly aperiodic SFT whenever all the G_i are finitely generated and have decidable word problem. In p

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