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# On Thouvenot's ergodic proof of Roth's theorem

V.V.Ryzhikov

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We present a lecture note on Thouvenot's proof of the Roth-Furstenberg theorem and joining proofs of Furstenberg's theorems on multiple progression average mixing for weakly mixing transformations.

Comments: lecture notes

Subjects: **Dynamical Systems (math.DS)**

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