THE DETERMINACY OF INFINITE GAMES WITH EVENTUAL PERFECT MONITORING ERAN SHMAYA

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Abstract. An infinite two-player zero-sum game with a Borel winning set, in which the opponent's actions are monitored eventually but not necessarily immediately after they are played, admits a value. The proof relies on a representation of the game as a stochastic game with perfect information, in which Nature operates as a delegate for the players and performs the randomizations for them.