1147-68-73 **Kenichi Kuga*** (kuga@math.s.chiba-u.ac.jp), Graduate School of Science, Chiba University, Yayoi-cho 1-33, Inage-ku, Chiba, 2638522, Japan. Some experiment of formalizing finite/projective geometry using Monte Carlo tree search.

We plant to report on our experiment aiming at automating formalization of finite/projective geometry using Monte-Carlo tree search and deep neural networks. We use Coq/Ssreflect as our proof assistant and follow the analogy between actions of games and application of tactics in formalization. We use contexts and goals returned by Coq as our states of the game. (Received January 25, 2019)