1154-03-589   **William Chan*** (`william.chan@unt.edu`) and **Stephen Jackson**. *Definable Combinatorics at the First Uncountable Cardinal.*

Assume the axiom of determinacy. This talk will discuss the almost everywhere bounded sequence club uniformization for relations of the form $R \subseteq [\omega_1]^{<\omega} \times \mathsf{club}_{\omega_1}$. This selection principle is used to investigate continuity properties for functions of the form $\Phi : [\omega_1]^{\omega_1} \to \omega_1$ and $\Phi : [\omega_1]^{\omega_1} \to {}^{\omega_1}\omega_1$. Some applications to definable cardinals below $\mathcal{P}(\omega_1)$ and to the stable theory of the partition measures will also be mentioned. (Received September 07, 2019)