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Qingying Bu* (qbu@olemiss.edu), **Donghai Ji** and **Ngai-Ching Wong**. *Weak Sequential Completeness of Spaces of Homogeneous Polynomials.*

Let $\mathcal{P}_w({}^n E; F)$ be the space of all continuous n -homogeneous polynomials from a Banach space E into another F , that are weakly continuous on bounded sets. We give sufficient conditions for the weak sequential completeness of $\mathcal{P}_w({}^n E; F)$. These sufficient conditions are also necessary if both E^* and F have the bounded compact approximation property. We also show that the weak sequential completeness and the reflexivity of $\mathcal{P}_w({}^n E; F)$ are equivalent whenever both E and F are reflexive. (Received August 13, 2015)