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**Terje Høim\*** (thoim@fau.edu), Dept. of Mathematics, Wilkes Honors College, Florida Atlantic University, Jupiter, FL 33458, and **D. A. Robbins** (david.robbins@trincoll.edu). *Irreducible representations of some vector-valued function algebras.*

Let  $\pi : \mathcal{E} \rightarrow X$  be a bundle of Banach algebras, where  $X$  is a completely regular Hausdorff space. We identify the sets of irreducible representations of several topological subalgebras of  $\Gamma(\pi)$ , the space of continuous sections of  $\pi$ . These subalgebras include:  $\Gamma_b(\pi)$ , the space of bounded sections of  $\pi$ ; and  $\Gamma_b^{cs}(\pi, \mathcal{D})$ , the space of sections bounded on each set of a cover  $\mathcal{D}$  of  $X$ , under the cover-strict topology determined by  $\mathcal{D}$ ; and  $\Gamma_b^c(\pi, \mathcal{D})$ , the space of sections bounded on each set of a cover  $\mathcal{D}$  of  $X$  by  $C_b$ -embedded sets. The results unify recent and older work of various authors regarding representations on algebra-valued function spaces. (Received September 20, 2018)