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Universal central extensions of $\mathfrak{psl}_3(\mathcal{A})$, \mathcal{A} alternative

We describe the universal central extension of $\mathfrak{psl}_3(\mathcal{A})$ for an alternative k -algebra \mathcal{A} (e.g. \mathcal{A} associative). Our results generalize the work of Gao and Shang published in 2007 (J. Algebra) and of vanderKallen published in 1973 (Lecture Notes in Mathematics). In particular, we will discuss the case where \mathcal{A} is an octonion algebra.