1053-13-147 **Jesse Elliott*** (jesse.elliott@csuci.edu), 305 Channel Islands Drive, Camarillo, CA 93012. Functorial properties of star operations.

We define a universal star operation to be an assignment $*: A \mapsto *_A$ of a star operation $*_A$ on A to every integral domain A. Prime examples of universal star operations include the divisorial closure star operation v, the t-closure star operation t, and the star operation $w = F_{\infty}$ of Hedstrom and Houston. For any universal star operation *, we say that an extension $B \supset A$ of integral domains is *-ideal class linked if there is a group homomorphism $\operatorname{Cl}_{*_A}(A) \longrightarrow \operatorname{Cl}_{*_B}(B)$ of star class groups induced by the map $I \longmapsto (IB)^{*_B}$ on the set of $*_A$ -ideals I of A. We study several natural subclasses of the class of *-ideal class linked extensions. (Received August 31, 2009)