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Abstract for an Invited Paper  
for the DNP10 Meeting of  
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### **Diagnostics for Thermonuclear and Core-Collapse Supernovae**

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I will likely present some new results on (a) variations of silicon group yields with initial metallicity ( $^{22}\text{Ne}$ ) in Type Ia supernovae models, and (b) trends in the yield of  $^{44}\text{Ti}$  and  $^{56}\text{Ni}$  as a function of the initial shock density, temperature, and electron fraction in core-collapse supernovae models.