

Talk at Splinter Meeting

Splinter I

HOT SUBDWARF STARS AND THEIR CONNECTION TO
THERMONUCLEAR SUPERNOVAE

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Hot subdwarfs in close binaries with massive white dwarf companions are candidates for the progenitors of thermonuclear supernovae. As soon as the white dwarf explodes, the surviving hot subdwarf might be ejected from the binary and accelerated to velocities high enough to leave our Galaxy. Hypervelocity hot subdwarfs such as the prototype US 708 might therefore become important tools to study thermonuclear supernovae. I will present new results from our project searching for both the binary progenitors and the ejected donor remnants to SN Ia.