2012/04/19

MATHEMATICS OF THE UNIVERSE

Supernovae as Sources of Interstellar Dust

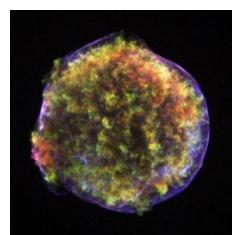
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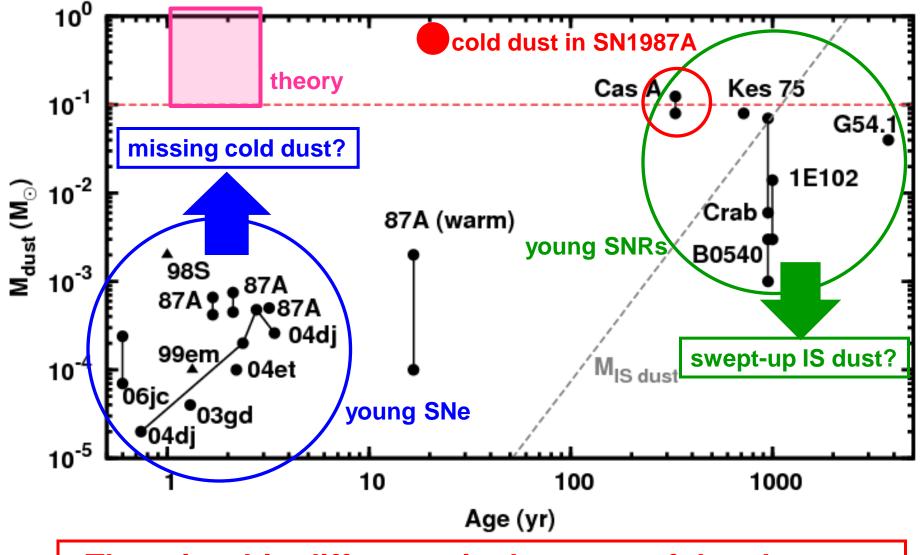




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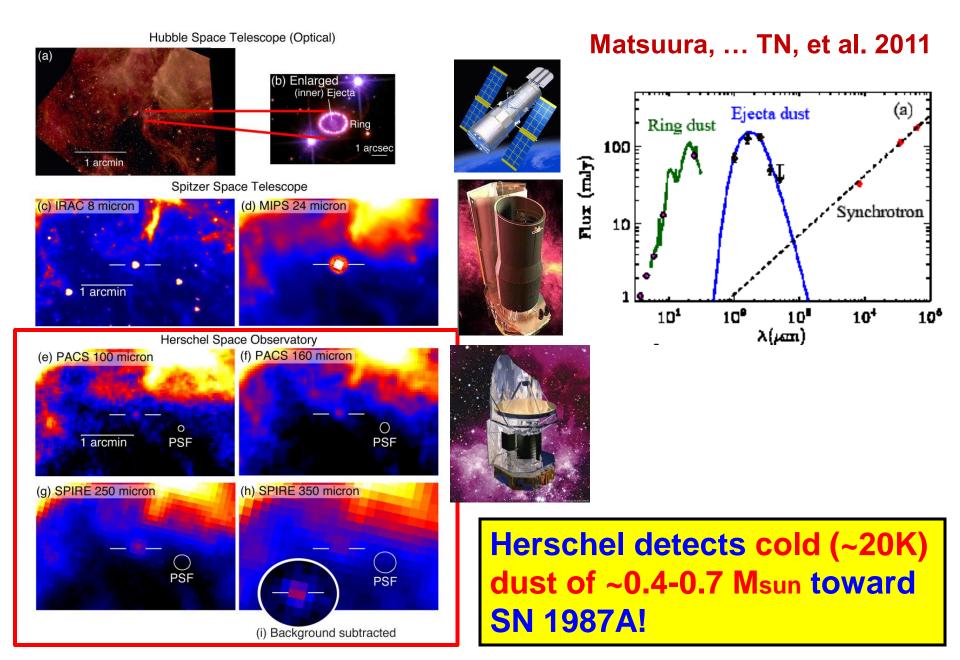


1. Missing-dust problem in core-collapse SNe

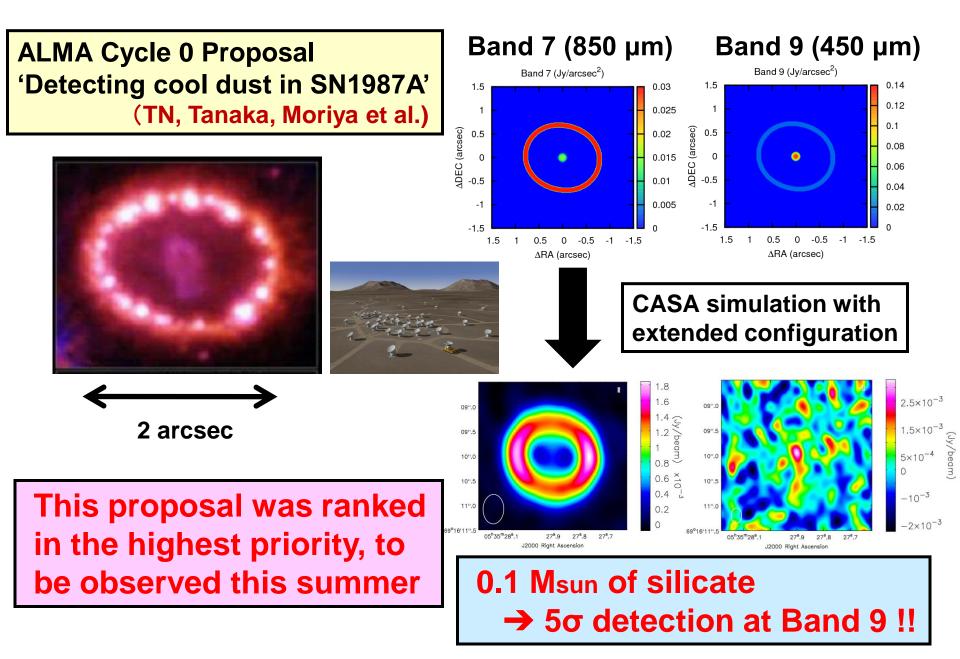


There is a big difference in the mass of dust between observational estimates and theoretical predictions!!

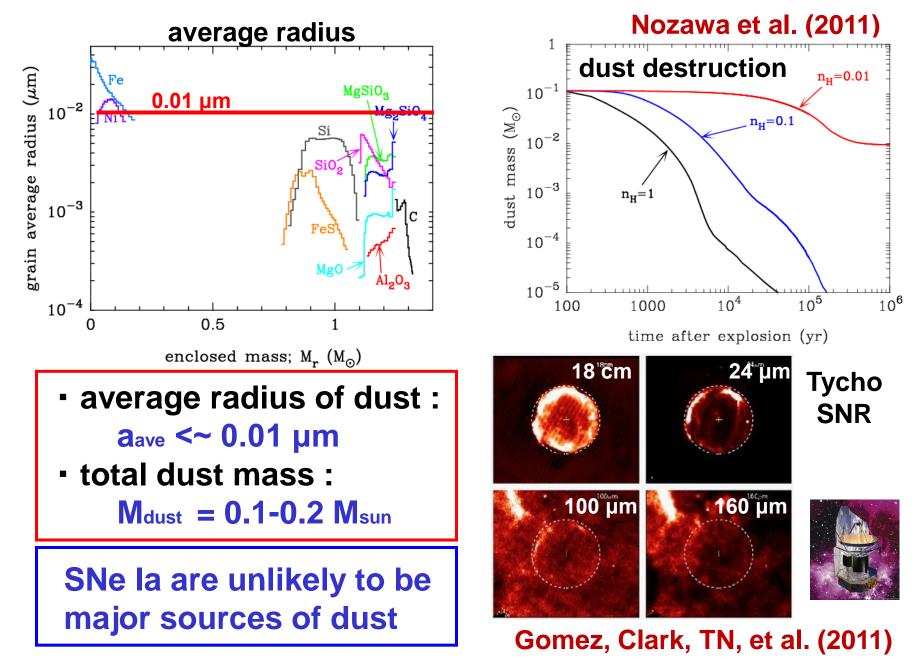
2. Herschel detects cold dust in SN 1987A



3. Resolving cold dust in SN 1987A with ALMA



4. Dust formation and evolution in SNe la



5. Effects of nano-properties on dust formation

