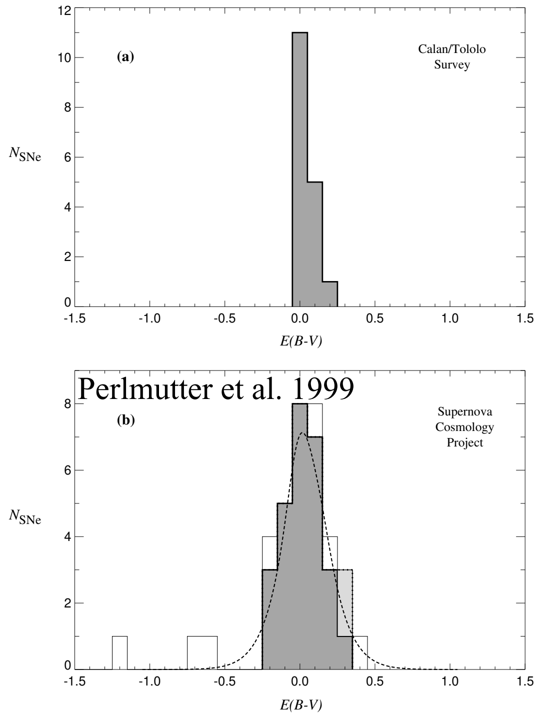
Tests of Extinction

Reddening as a test for extinction

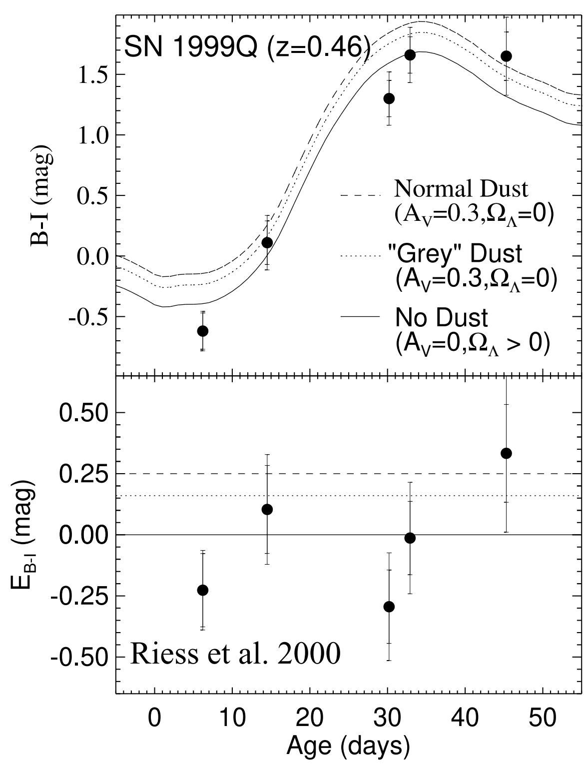


Measurements of E(B-V):

good for interstellar dust,
but reddening law dependent
and sigma_m~ 3 sigma (B-V)

can we understand SN Ia
colors to better than 0.5%??

dispersion also tests interstellar
dust



Measurements of E(B-I)
(or a longer wavelength)

more sensitive to grayer dust
(e.g., intergalactic gray dust?)

Other extinction worries:

Galactic halo of dust
zeropoint of color

Overall extinction is probably
more detectable than evolution