

Future Session

"ongoing SN programs"

Ongoing/near future SN programs

Semantics:

Ground based

- Very Nearby: $z < 0.03$
- Nearby SNe : 0.03-0.1
- Intermediate- z : 0.1-0.3
- High- z : 0.3-0.8
- Very High- z : 0.8-1.2

Space based

- HST High- z : 0.5-1.6
- HST UV : < 0.1

« Very nearby »

- Many (uncoordinated) observations done by various people
- ESC (coordinated by W. Hillebrandt)
ressources : various (European)
Optical +IR photometry+Spectroscopy
so far 3-4 well measured SNe

« nearby »

- « old searches » : Hamuy, CFA, SCP99, ...
- LOTOSS (Fillipenko et al.)

30 in. KAIT Telescope ~400 SN since 1998
(2004:49, 2003:95, 2002:82, 2001:68,...

- SNF : 2003-2006

Search : QUEST on Palomar 1.2m (70SNe in 2002)

Follow-up : Spectro-photometry with SNIFS

- Palomar/QUEST SNII program ...
- Carnegie (Hamuy) SNII program

« intermediate »

- ESCC : 2 runs : 1999, 2002 with INT WFC+WHT+NOT
~10 SNe being analyzed
- Capellaro, Turatto et al. On ESO 2.2 WFI+ESO NTT,..
? SN so far (rate paper)
plane to move to VST (1sq deg) + VLT ->higher z
- SLOAN (project) : 2005?->
~300 SNe in 0.1-0.4 with SLOAN telescope + WIYN

High-z

- SCP, HZT ~40 SNe on disk ? CTIO, CFHT, SUBARU + Keck, VLTs, GEMINI
- ESSENCE : 2002-2005 : CTIO 4m + VLT+GEMINI
Rolling search mode
goal : ~200 SNe in 0.2-0.7
- SNLS : 2003-2008 : CFHT+VLT+GEMINI +Keck+..
Rolling search mode
goal : ~700 SNe in 0.3-0.9
- Carnegie : IR of SNLS+ESSENCE $z \sim 0.4$ SNe : Magellan
- « Ellis » : Detailed spectro of some SNLS $z \sim 0.4$ Ia : keck
- « Ellis » : SNII Hubble diagram (up to 0.4) : keck+

Very High-z

- SCP, HZT : CTIO, CFHT, SUBARU
+ Keck, VLTs, GEMINI : 2000-2002

~15 SNe on disk

- Is it worth trying to get more?

Space based

- ACS : 0.4-1.6
HST followed ~15 SNe
HST found
- UV

Near/far future

- VST - TBL (intermediate, high-z)
- Dark Energy Camera on CTIO
- Pan Star (low-z), LSST (high-z)

Rate at $z \sim 1$ from Subaru Fall 02

