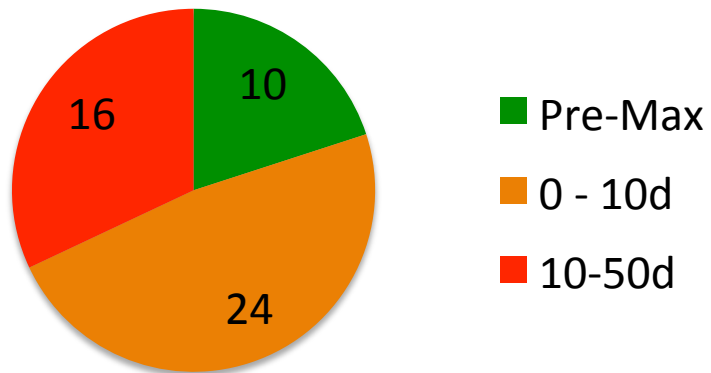


# PESSTO Oxford Meeting June 20-21<sup>st</sup> 2012

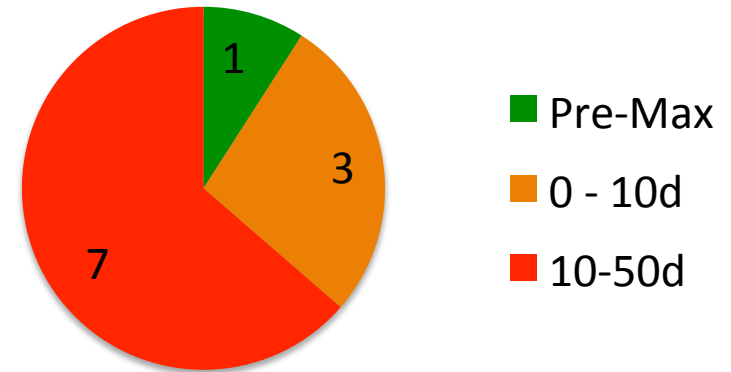
S. Smartt

# Summary of classifications - Epochs

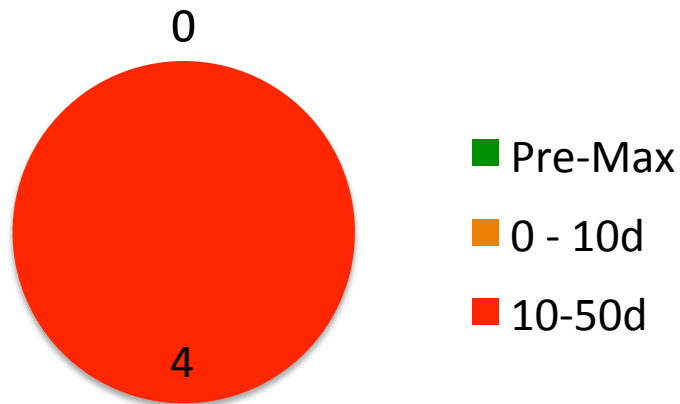
## Type Ia



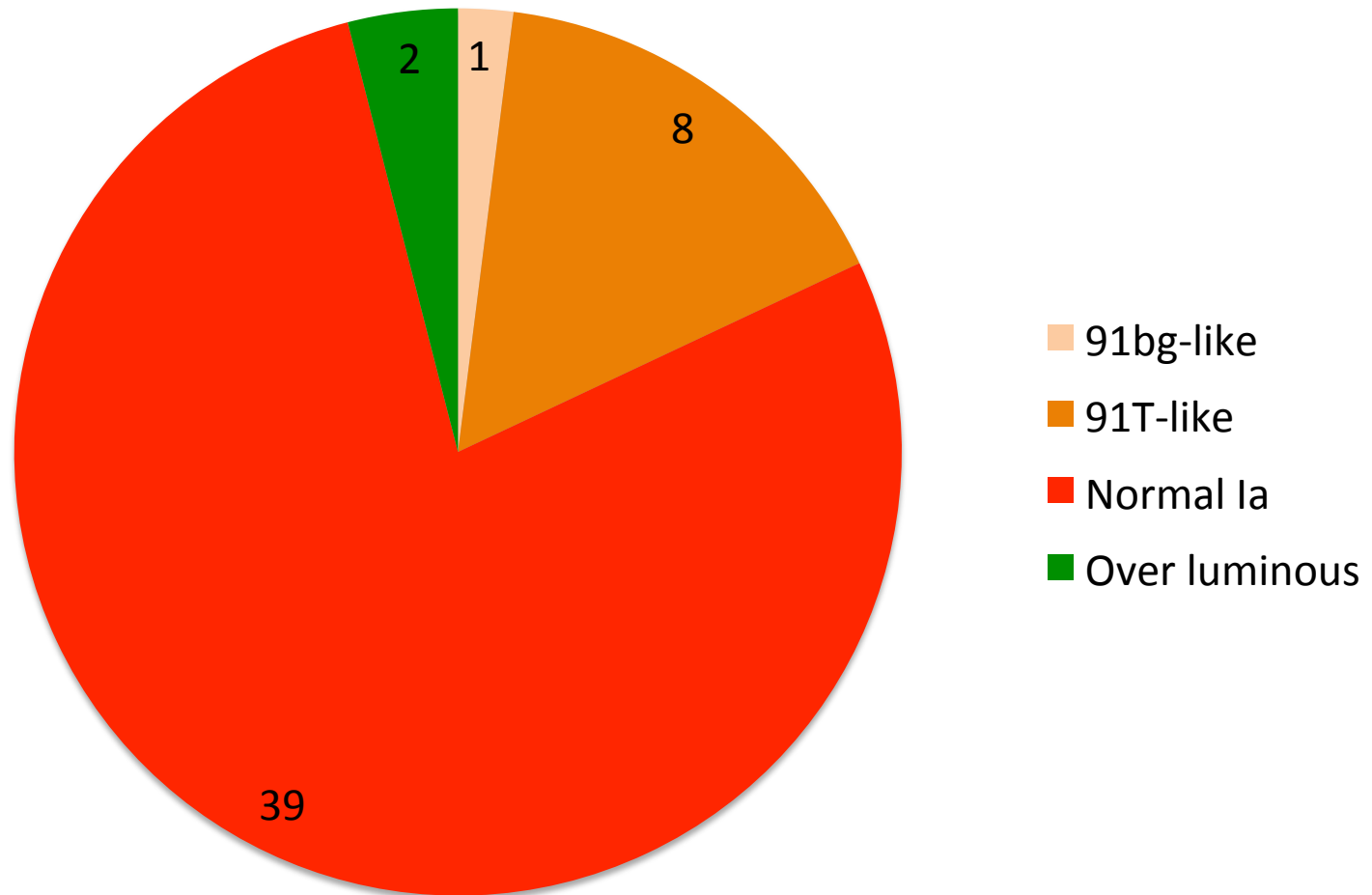
## Type II (inc. IIIn)



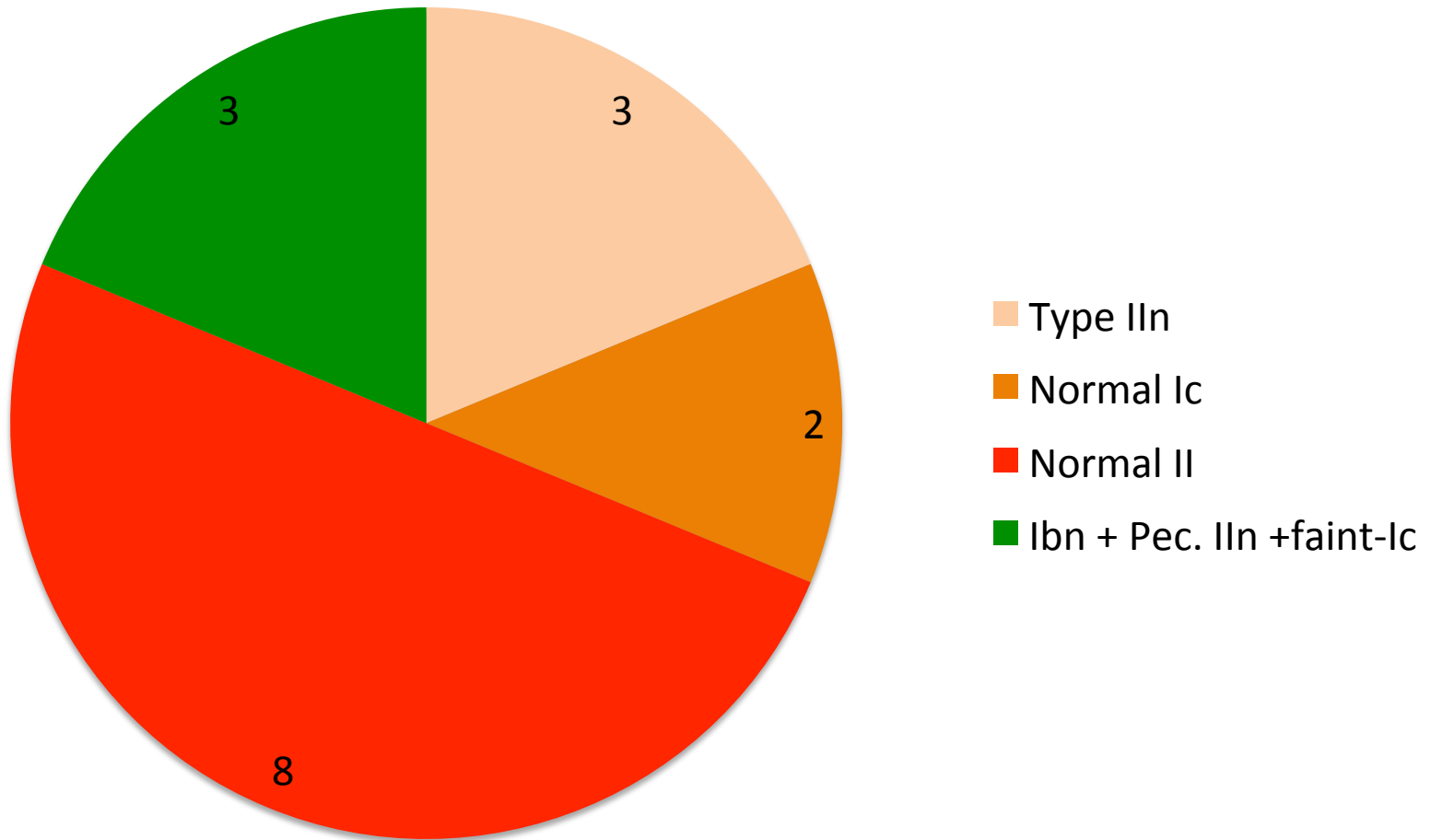
## Type Ibc



## Type Ia



## Core-collapse



# Summary

- 65 classifications
- 4 objects which would meet PESSTO science follow-up goals, had we been in full operating mode
  - LSQ12btw : Ibn
  - SN2012ac : IIn (97cy or 01ic like)
  - LSQ12byu : hyper-luminous Ia ( $M \sim -20.5$ )
  - SNhunt121 : faint Ic, broad LC

# PESSTO lifetime Projection – classification

- 5 years = 45 months  $\approx$  2900 classifications
  - Only had 60% PESSTO time (due to Bennetti LP)
  - Originally envisaged 25% classification time
- $2900 * 10/6 * \frac{1}{4} = 1200$

Short of the 2000 originally planned. The 2000 was based on 30min classification OBs

# PESSTO lifetime Projection – science targets

- 5 years = 45 months  $\approx$  180 “science targets”
  - Only had 60% PESSTO time (due to Bennetti LP)
  - Originally envisaged 25% classification time
- $180 * 10/6 * \frac{1}{4} = 75$

Short of the 150 originally planned.





**Total number of periods requested** **8**

**Time required on NTT (EFOSC2 + SOFI)**

Based on number of SN targets and the unit of observation is an OB (which means 1 spectrum, either optical or NIR)

Average length of night = 9 hrs

**Classification and screening of targets fom Surveys**

No. of Sne	No. of OB	Total	OB duration (hrs)	Time(hrs)
2000	1	2000	0.5	1000

**EFOSC2 follow-up**

No of Sne	No. of OB	Total	OB Duration (hrs)	Time(hrs)
150	10	1500	1.5	2250

**SOFI follow-up**

No of Sne	No. of OB	Total	OB Duration (hrs)	Time(hrs)
75	4	300	2.5	750

Total of OB Hrs	4000
10% Calibration	400
20% weather loss	800
Total Equivalent Nights	578
<b>Total Nights per period</b>	<b>72</b>