



Studying the connection between star burst and X-ray activity in AGN

Scientific case:

- AGN activity influences star burst
- hard X-rays prove strong AGN activity
- absorption and Compton reflection proves strong interaction of AGN with environment

The Sample:

- local, hard X-ray bright sources from *Swift*/BAT and *INTEGRAL*/IBIS all-sky survey
- 15 brightest, highly absorbed sources and 5 brightest, low absorbed sources
- all sources at $z < 0.06$

Observation: use *Herschel*/SPIRE in large mapping mode for a **total** exposure time of ~ 200 ksec.

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