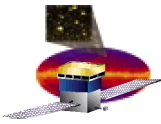


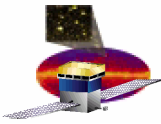
20 diffuse catalogue fans

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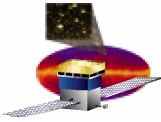
source detection

- **detection pipeline (using likelihood tool) ready for DC2**
- **discussion on how to combine detection results in different energy bands**
- **discussion on the strategy for optimizing the diffuse emission together with the sources**
- **discussion on the choice of « real » vs. « highest TS » position for the source characterization step for firmly identified sources**
 - **position systematic uncertainties and creating false additional sources**



ISM emission model

- **great progress on**
 - **ISM maps (new HI and CO rings, dark hydrogen off the plane)**
 - **ISRF (new $\mu\lambda$ data and modelling)**
 - **radiation processes (pion-decay, IC) ... brem to be checked**
- **large effort on GALPROP**
 - **$\mu\lambda$ data fitting (X to γ)**
 - **$\mu\lambda$ data display (GALPLOT)**
 - **revisit the whole suite of programs (C++)**
 - **output cube for Science tools**
- **1st year outstanding prospects (confluence discussions)**
 - **any GeV excess?**
 - **interstellar spectrum beyond 10 GeV**
 - **cosmic-ray arm/interarm contrast in the outer Galaxy**
 - **extragalactic background**
 - **X ratios: X(R), locally, in LMC and SMC**



multi-wavelength support

- **medium and high latitude CO coverage of faint clouds (potential LAT sources)**
 - northern sky: Mini (CfA) (work in progress to solve the funding issue)
 - southern sky: NANTEN (discussion ahead)
- **at low latitude**
 - rare CO isotope or high-J CO mapping toward spiral arm tangents and molecular ring
 - higher density tracers (HCN, CS,...) maps around Gal. Center