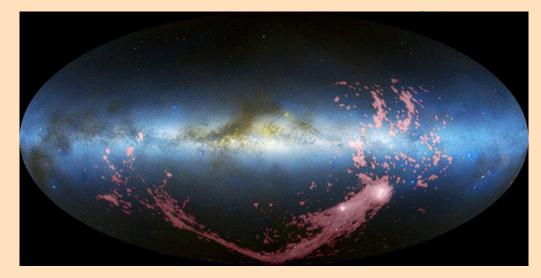
Chemodynamics of Dwarf Galaxies under Ram Pressure

David Williamson (University of Southampton, UK)

Hugo Martel (Université Laval, Canada)

Submitted to The Astrophysical Journal.

MOTIVATION: Many dwarf galaxies are located in the vicinity of massive L_* galaxies. The presence of a massive galaxy can greatly affect the evolution of the dwarf companion.



The Magellanic Stream

Objective: to simulate the evolution of a dwarf galaxy as it orbits inside the gaseous halo of a massive L_* galaxy.

Method: high-resolution SPH simulation of the dwarf galaxy, with a semi-analytical treatment of the effects of the massive galaxy: tides, ram pressure, and pressure confinement \rightarrow "supergrid physics."

