1. **Introduction**

In this report different transfer strategies between the planets Neptune and Mercury are analyzed.

Such strategies are constrained by two time limits: earliest departure from Neptune 1st January 2031 and latest arrival at Mercury 1st February 2071. Furthermore, they must include a flyby of the planet Venus.

Once possible transfers are identified, the least expensive in terms of required is selected.

1. Design process
   * 1. Initial choice for time windows

In order to select

* + 1. Additional constraints considered
    2. Transfer options exploration, analysis and computation
    3. Selection of the final solution

1. Final solution
   * 1. Planet position at times of interest
     2. Heliocentric trajectory
     3. Powered gravity assist
     4. Cost of the mission