2019-01-31 meeting

Type: **project-wide**

Meeting time: 18:00 – 20:00

Objectives:

* Iteration 1 review

Information to give:

--------- Report --------

Number of people:

|  |  |
| --- | --- |
| Subsystem | People attending the meeting |
| Structure | 4 |
| Thermal | 2 |
| ADCS | 2 |
| Payload | 3/1 |
| Power | 2 |
| Mission Analysis | 0 |
| Systems engineering | 2 |
| OBDH | 2 |
| Communications | 0 |
|  |  |

Information given (non-exhaustive):

**Gravimetry payload:**

21.2 Mbits/orbit; maximum data rate: 2.4 Mbits/10min

Question: what is the integration time needed for the payload to get the amount of information they need for the mission. --> raw computations (Python hand-coded functions)

Parameters to be set: integration time + data amount trade-off.

Orbit simulations: unstability problems (worked on it for 1 day only)

**Thermal:**

Subsystem data integrated in simulation; if not data is available they pick CubesatShop components

Simulation: 2U CubeSat with solar panels. They are adding components and increase the complexity.

**Power:**

They asked Jean-luc Le Gal about simulating with IDM software. They received a Matlab code made for a 3U to be refitted for the 2U, and a lot of excel files to calculate the average power generation from the solar panel in case of random rotation speeds.

**OBDH:**