Lab 3: GPS Navigation Message

The objectives of the lab are the understanding of the navigation message structure for civil GPS-signals and the working with official documentations.

The information about the GPS navigation message is included in the I-correlations. The I-correlations can be tapped from the GPS tracking loop. The reading of this message is according to a pattern which is suggested in the lab. The demodulation process is realised in Matlab and it should be extended by the reading of the bit values for subframe 1-3. For this purpose the official documentation IS-GPS 200H, the file "iKoorSV21.txt" and the given m-files should be used. The following parameters should be determined:

- GPS week
- Toe
- Cic

After that the results should be compared with the values for GPS SV 21 from the RINEX file. For the exercise sheet the bit values and the calculation should be written.