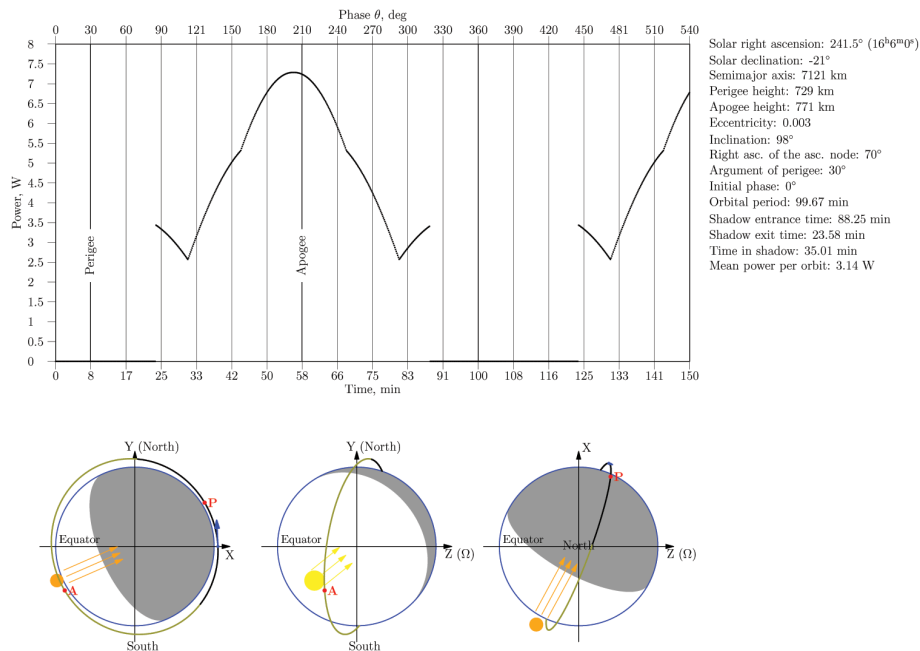


Topic	TTÜ satellite orbital mission planning
Topic is suitable for	<ul style="list-style-type: none"> • graduation thesis of bachelor students • graduation thesis of master students
Contact	Vladislav-Veniamin Pustõnski (vlad.pustynski@gmail.com)
Annotation	<p>In 2014, the first TTÜ satellite project was started. Its launch is planned for the year 2018 or 2019. The principal task of the satellite is high-resolution imaging of the Earth in optical and IR spectral ranges.</p> <p>The aim of this work is planning orbital activities of the satellite. This includes providing positive energy balance, prediction of communication windows, planning of imaging tasks, planning of data flows and other mission-related activities. The result of the work is to compose the general plan of the orbital activities and, if the satellite is launched and successfully starts its mission during the preparation of this work, to compose daily plans for the mission.</p> <p>The work will be prepared in close contact with the TTÜ satellite team; the student will become a member of this team.</p>
Expectation for candidate	The candidate should be interested in space studies and in the TTÜ satellite project, and be ready to work in a large team.



Energy generated by the satellite's solar panels as function of orbital position (model).