

# Mathematically determining the orbit of the I.S.S using its ground tracks

A Mathematical exploration  
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# **1 Introduction**

The International Space Station (commonly referred to as the ISS) is a man-made, habitable satellite developed in a joint venture among five agencies: NASA (USA), Roscosmos (Russia), JAXA (Japan), The European Space Agency, and the Canadian space agency. The first module was launched on the Russian "Proton" rocket in 1998, and the last module to be launched was the "International Docking Adapter-2", launched by the private company- SpaceX

## **1.1 Personal engagement**

# **2 Background theory**

## **2.1 What are orbits**

# **3 Modelling**