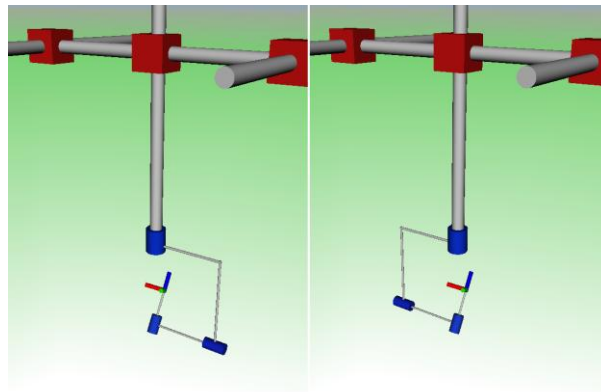




## **Development and implementation of control and adjustment functions for a laboratory demonstrator for rendezvous manoeuvres of spacecrafts**

The supply of satellites, orbiters and space platforms is taken on by service missions which safety and practicability is of top priority. Special attention is drawn to the link mechanism that provides for rendezvous manoeuvres of spacecrafts with safe algorithms and automation. To develop and validate these algorithms under laboratory conditions a laboratory demonstrator is used. On the basis of comprehensive research concerning the kinematics of robots a control function is to develop that allows the appropriate use and programming of the demonstrator. Thus poses given by users can be transformed into joint parameters using the implementation function with consideration of the working space.



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