

Abstrakt

Galactic centre of Milky way is one of its most exotic parts. Right in the centre there lies a black hole, which has a mass of several million masses of our Sun. In the vicinity of this black hole there was recently found a young star cluster. The origin of these stars remains a mystery. Their spatial arrangement in a disc can give us a clue. The result of this thesis is a thorough analysis of the existence of two discs of young stars using the data from VLT telescopes in Chile and Keck telescopes in Hawaii. The analysis confirms the existence of one disc and shows the existence of the other disc seems to be very probable.