

# Optical observation of supernova remnant in elliptical galaxy NGC185

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## Abstract

In this paper we discuss the previously known optical supernova remnant (SNR) in NGC185 galaxy, a dwarf elliptical companion of the Andromeda galaxy, in order to gain more information about its properties and evolutionary status. To this end, we observed a central portion of NGC185, through the narrowband H $\alpha$  and [S II] filters, on a 2m RCC-telescope at National astronomical observatory Rozhen, Bulgaria. Also, we performed MHD simulation using the Pluto code, for the case of low environmental density and high pressure, in order to discuss evolution of an SNR in a gas poor dwarf galaxy.