

## 8.8: Mission Report 8 - What Is the Matter With NGC 3198?



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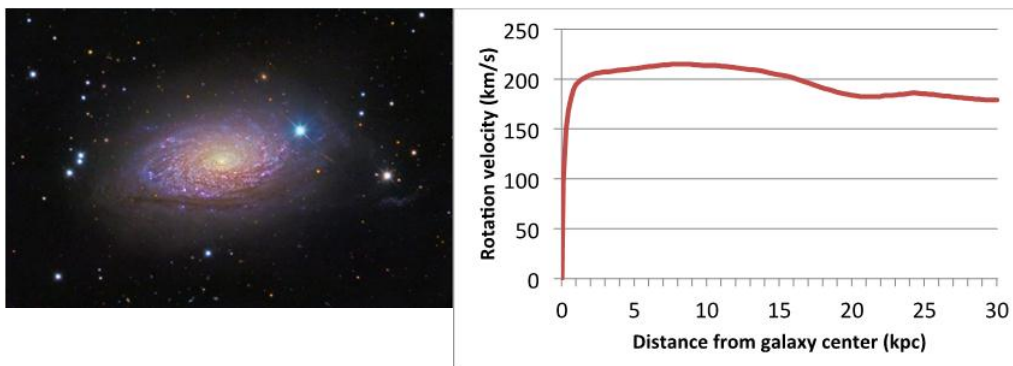
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D. Questions to be graded for accuracy. Show your work!

In this section, we will examine the rotation curve of the “Sunflower Galaxy,” also known at NGC 5055. The image of the galaxy and the galaxy’s rotation curve, are shown in the figure below.



NGC 5055, the Sunflower Galaxy, and its rotation curve. Credit: NGC 5055 image: Processed by Juan Conejero / Image Acquisition by Jim Misti and Steve Mazlin; NGC 5055 rotation curve: adapted from data published in Y. Sofue, Y. Tutui, M. Honma, A. Tomita, T. Takamiya, J. Koda and Y. Takeda, 1999, Astrophysical Journal Vol. 523, pp136-146

### 1. Understanding velocity distributions



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