

Lab training/theory Project

~~BIO/CHM/ECS/HSS/MTH/PHY 301/302/401/402~~

Semester: Fall / ~~Spring~~- 20.18.

Name of student: RAJ PATIL

Name of instructor: SUNEETA VARDARAJAN

Duration of project: One semester

Title of reading/research project: Aspects of Black holes

Objectives of research/reading project:

Classical black holes – Schwarzschild, Kerr.  
Penrose diagrams, Chapter 9 from Carroll's book.

**Structure of the project** (Please specify: what the expectations are for the student: e.g. weekly reading, lab work; weekly meetings/discussion with mentor; field work; etc.)

Discussion once a week / presentation.

Mid-semester presentation

End-semester presentation or report.

**Evaluation criteria:** evaluated (include percentage of grade for each component):

- 1) Periodic discussions: 60%.
- 2) Lab notebook:
- 3) Mid-semester report: presentation 10%.
- 4) End semester report: OR (40%) } 30%.
- 5) Presentation:
- 6) Other —



# Indian Institute of Science Education and Research

## (IISER – Pune)

Dr Homi Bhabha Road, Pashan, Pune 411008.

### Evaluation committee:

- 1) Mentor: *Suneeta Vardarajan*
- 2) Other: *Dr. Sachin Jain.*

I have understood the terms and guidelines of the project. I am aware of my responsibilities and the evaluation criteria. I shall make every effort to fulfill these to the best of my abilities.

Signature of the student

*Patil*  
*Raj Patil*

Name: **RAJ PATIL**

Roll no.: **20151143 .**

*Suneeta Vardarajan*

Signature of the mentor

Name: **SUNEETA VARDARAJAN**

Date: **Aug 6, 2018**