

MAT3

MATHEMATICAL TRIPOS **Part III**

Friday 31 May 2024 9:00 am to 12:00 pm

PAPER 309

GENERAL RELATIVITY

Before you begin please read these instructions carefully

Candidates have **THREE HOURS** to complete the written examination.

Attempt no more than **THREE** questions.

There are **FOUR** questions in total.

The questions carry equal weight.

Throughout, units are chosen such that $c = G = 1$, and the signature convention for spacetime is $(- + ++)$.

STATIONERY REQUIREMENTS

Cover sheet
Treasury tag
Script paper
Rough paper

SPECIAL REQUIREMENTS

None

<p>You may not start to read the questions printed on the subsequent pages until instructed to do so by the Invigilator.</p>
