# Heavy quarks: a continuing probe of the strong interaction

**International Scientific Seminar at Chicheley Hall** 



## Heavy quarks

probe of the strong interaction

separation of scales

weak coupling at short distance

effective field theories

Iattice QCD

### At zero temperature

well established

high precision

sophisticated, higher-order corrections

pre- and postdictions

#### At nonzero temperature

- hadronic medium or quark-gluon plasma
- motivated by heavy-ion collisions, RHIC and LHC
- more exploratory
- control systematics
- what are the right questions to ask?
- definite universally accepted results?

### This meeting

ullet mix of presentations at T=0 and T>0

two discussion sessions

develop both analytical and numerical understanding

best practice and future strategy

please interrupt and ask questions!