NOT THE GOAL OF THIS COURSE

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- This course is not to make you a **mechanic**

- This course is not to make you a **race car driver**:

- This is not a theory course!

- This is not a course on probabilisitic programming or high performance computing

- Hardware, packages, languages, models, etc change

- Implemations in practice have their own challenges that are not our focus

- We will use theory to motivate methodology

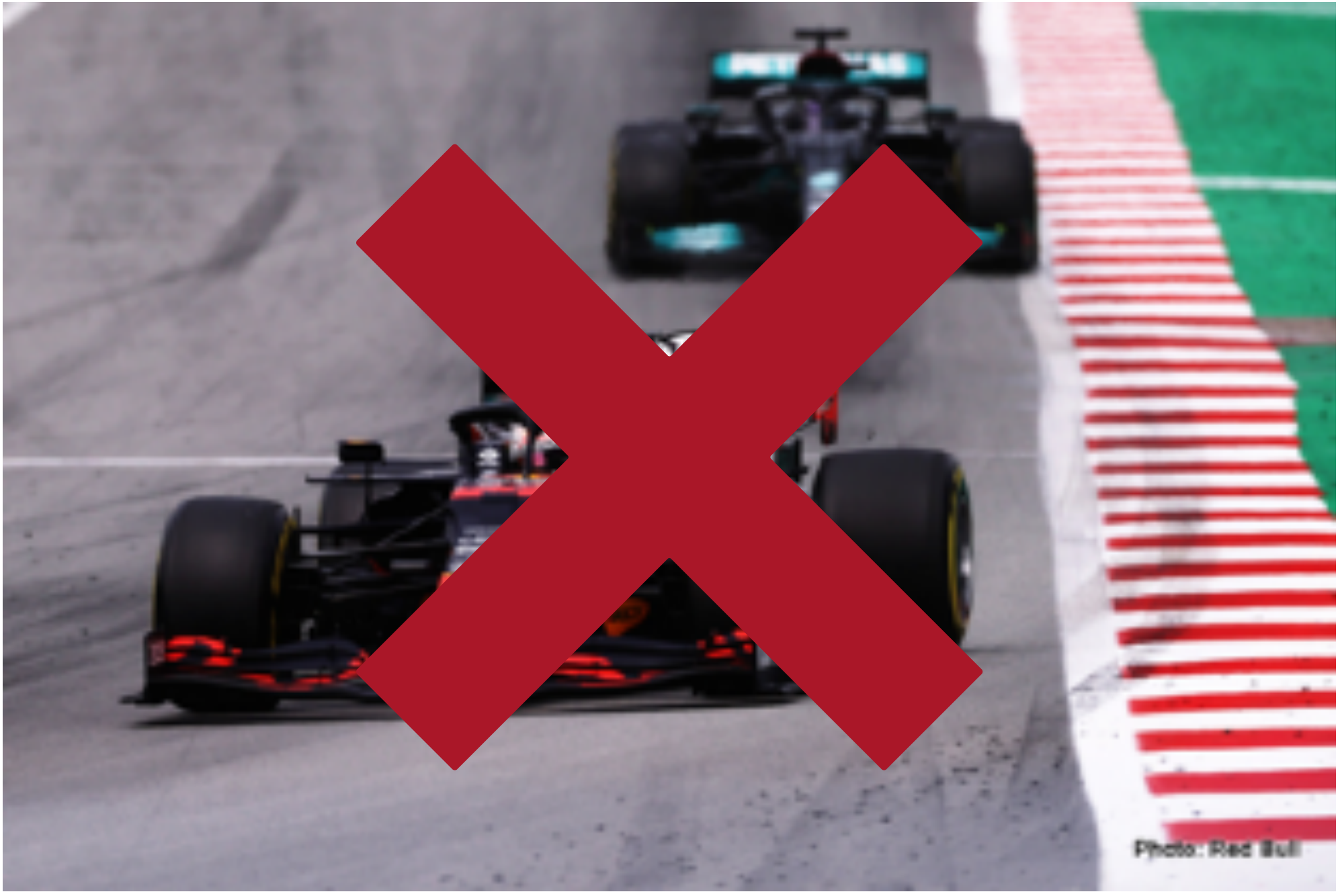
Photo: Red Bull

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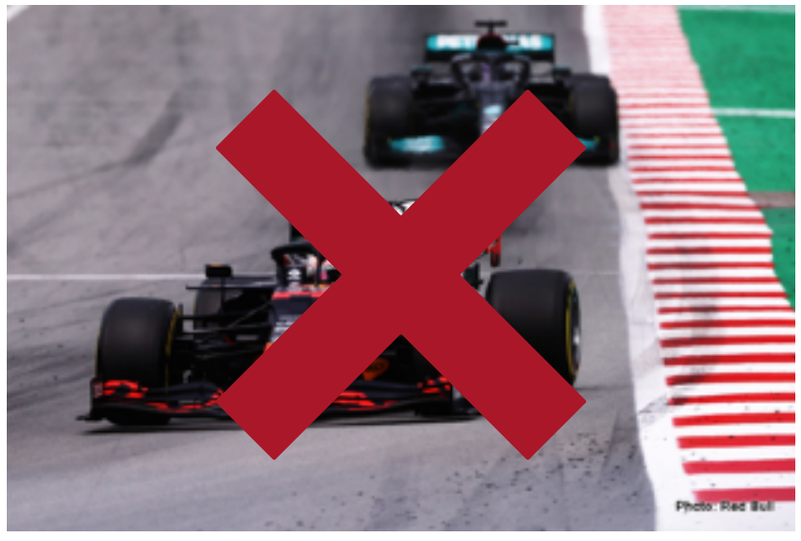

COURSE OUTLINE

- **Part 1: Foundations**
  - MCMC theory
  - Local inference algorithms
  - Annealing

- **Part 2: Annealing algorithms**
  - Parallel annealing
  - Sequential annealing

- **Part 3: Free energy methods**
  - Acceleration methods
  - Enhanced sampling
  - Optional topics