

# Open Problems Session

## Summer School on Geometric and Algebraic Combinatorics

The Open Problems Session on Wednesday is an opportunity to start collaborations and to learn about new topics in the area. Here are some recommendations to make the most out of it.

### 1 For problem proposers

- Prepare a short ( $< 10$  minutes) presentation of the problem.
- Introduce yourself and say how people can contact you.
- State the non-standard definitions that you need clearly.
- Prepare a small example that helps to understand the definitions.
- It is better to state a concrete problem. You can also state a generic problem, but be sure to provide concrete milestones. Compare:
  - Understand the  $f$ -vector in the family of polytopes  $\mathcal{F}$  vs.
  - Find all linear relations satisfied by the  $f$ -vector of polytopes in  $\mathcal{F}$ .
- Mention some aspects on the state of the problem. If there is a conjectured answer, mention it and the evidence that supports it. If the problem has been studied in special cases, provide some comments and references.
- Prepare a document with details. It will be very helpful for structuring the presentation and for follow-up. To share it with everyone in the event, send it to: `leomtz@im.unam.mx`.

### 2 For the audience

- Keep your notes at a minimum. You can take a note on the problem topic, the general idea, how much did you like it and contact details.
- Ask for clarifying questions.
- Share any references if you think they could be helpful.
- Follow-up with problem proposers during coffee breaks or email.