Rules for the nth CMI Tesselate Integration Bee

Quick Rules

The Integration Bee is on **25 Jan 2025**, with a paper round (12–12:30 PM) and tournament (1:30–3 PM). Solve 8 questions in 30 mins. Top 8 advance. Tournament: double elimination, 2-player matchups, timed integrals. Finals: single elimination. No digital help. Prizes for top 4.

Full Detailed Rules

Event Schedule

• Date: 25th January 2025

• Paper Round: 12:00 PM - 12:30 PM

• Break: 12:30 PM - 1:30 PM

• Tournament Stage: 1:30 PM - 3:00 PM

Paper Round

• Format:

- The paper consists of 8 questions divided into 4 sheets (2 questions per sheet).
- Sheets are labeled x1, x2, x3, x4, with xi harder than xj if i > j.
- You may start with any sheet but must submit it to receive the next one.
- Once submitted, answers are locked and cannot be changed.
- You may leave once all 4 sheets are submitted.

• Scoring:

- o x1: 4 marks per question
- o x2: 5 marks per question
- x3: 7 marks per question
- o x4: 9 marks per question

Advancement:

- The top 8 participants (plus at most 2 ties for the last place) advance to the tournament stage.
- o If further ties occur, tie-breaker integrals will decide the final slots.

Tournament Stage

• Location: NKN Hall

• Format:

- Double Elimination: Players who lose once enter the losing bracket. A loss in the losing bracket results in elimination.
- The winning bracket and losing bracket each produce one finalist. The final round is single elimination.- Matchup Rules:
- Each matchup involves 2 contestants.
- An integral is displayed simultaneously to both contestants, and a timer starts.
- o Contestants must circle or box their answer to lock it in. Once locked, answers cannot be changed.

• Winning Conditions:

- If a contestant locks in the correct answer within the time limit before their opponent, they win and advance.
- If a contestant locks in a wrong answer and the opponent locks in the correct answer within the time limit, the opponent advances.
- If both give wrong answers or time runs out, either an extra 1-minute round or an additional question will be provided.
- If the deadlock persists after 3 extra questions or equavalent amount of time, both contestants
 take a loss

o Final Round:

- The number of questions in the finals is at the discretion of the organizers(will be announced before the finals).
- Finals will determine the Gold (Grand Integrator), Silver, while we would already know the Bronze, and Honorable Mention winners from the 4th round.
- The format of finals will be revealed on the day of the tournament.

o Time Limits:

- Rounds 1–3: 2 minutes per question
- Round 4: 3 minutes per question

Participation Rules

• Eligibility:

- o Open to all CMI BSc, MSc, MSDS, PhD students, PostDocs, faculty, and staff.
- · No external participants allowed.

• Integrity:

- No digital aids (calculators, phones, or any electronic devices).
- No external communication during the event.
- $\circ \;\;$ Cheating or rule-breaking leads to $immediate \; disqualification.$

• Techniques:

• Any valid integration technique is allowed.

Additional Notes

- The organizing team reserves the right to make clarifications or minor adjustments to the rules if needed.
- Participants are encouraged to arrive 15 minutes before the event start time.
- Questions about rules or logistics should be directed to the organizing team before the event begins.

Good luck, and may the best integrator win!