**Workshop “Group schemes and related topics”**

**Program 23-27/9/2024**

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| --- | --- | --- | --- | --- | --- |
|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| Morning |  |  |  |  |  |
| 10:00-12:00 | Lecture 2.1 | Lecture 1.2 |  | Lecture 4.2 | Lecture 4.3 |
| 10:30-12:30 |  |  | Lecture 2.3 |  |  |
| 12:00-14:00 | Lunch | Lunch | Lunch | Lunch | Lunch |
| Afternoon |  |  |  |  |  |
| 14:00-16:00 | Lecture 1.1 | Lecture 2.2 | Lecture 4.1 | Lecture 1.4 | Lecture 2.4 |
| 16:00-18:00 | Lecture 3.1 | Lecture 3.2 | Lecture 1.3 | Lecture 3.3 | Lecture 3.4 |
| 18:00-20:00 |  |  |  |  | Banquet |

1. **Reductive groups**

1.1. Connected reductive group and root datum: Phạm Khoa Bằng

1.2. The uniqueness theorem: Phạm Thanh Tâm

1.3. The existence theorem: Đào Phương Bắc

1.4. Classification of almost simple (quasi-simple) group: Nguyễn Đình Vũ

2. **Abelian varieties**

2.1. Complex tori and abelian varieties: Võ Anh Đức

2.2. Line bundles and dual abelian varieties in characteristic 0: Phạm Ngô Thành Đạt

2.3. Dual abelian varieties in characteristics p: Phùng Hồ Hải

2.4. Jacobian variety: Phạm Quang Nghĩa

3. **Inverse Galois theory**

3.1. Elementary examples in low degrees, and the Scholz-Reichardt theorem: Nguyễn Duy Tân

3.2. Hilbert property: Nguyễn Mạnh Linh

3.3. Galois extensions of Q(T): Đặng Quốc Huy

3.4. Embedding problems: Đào Văn Thịnh

4. **Invariant theory**:

4.1. Equivariant Modules, Sheaves and Duality: M. Hashimoto

4.2. Good filtrations, Steinberg modules, and F- regularity: M. Hashimoto

4.3. Almost principal bundles: M. Hashimoto