

***SIG3 - Special Interest Group on Aperiodic Crystals***

***Reported Period: July 2024 - June 2025***

***Report Date: 10.8.2025***

***Reported by: Emilie Gaudry (chair), Michal Dusek (secretary)***

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**1. Introduction.**

The activities of SIG#3 focus on sharing knowledge about aperiodic crystallography at conferences and workshops, as well as through the Aperiodic Crystals website.

**2. SIG website:**

SIG3 shares a website with the IUCr Commission on Aperiodic Crystals (CAC). The following links refer to the same website:

<http://sig3.ecanews.org>

<http://aperiodic.iucr.org>

**3. Existence of a SIG mailing list: Yes**

Address of the mailing list: none

Number of members in the SIG mailing list : 32

Currently, we maintain only a distribution list for making various announcements. People interested in this mailing list can subscribe through the SIG#3 web page. However, there is almost no interest in this form of communication.

**4. Approximate total number of researchers involved in the SIG (please indicate the basis for the estimate)**

120 (estimate based on the attendance of MS organized by SIG#3, the interest in giving lectures in those MS, attendance of the Aperiodic conferences, and the number of individual members.)

**5. List of MS, plenary, and keynote lectures with the SIG participation at the last ECM Meeting**

ECM34 meeting was organised in Padova, 26-30 August 2024.

Members of SIG3 participated in lectures and the organization of the microsymposium “Aperiodic order and complex superstructures” and “Intermetallic compounds and derivatives”.

**6. Prizes sponsored/coordinated**

none

**7. Past Activities other than Microsymposia at the ECM meeting**

**Title: 16<sup>th</sup> International Conference on Quasicrystals (22-27 June 2025, Nancy, France)**

Number of Participants: 85, coming from 18 countries. The program of ICQ16 contains 15 Sessions, 15 Invited talks, 37 Contributed and 2 Poster sessions (21 posters presented).

Level of involvement of SIG in the activity:

☐ SIG3 members were involved in the organizing committee

☐ SIG3 members were involved as lecturers

Other Sponsors/Organizers: IUCr

Short Description: The annual conference about all aspects of quasicrystals.

Proceedings are currently being prepared for Acta Cryst. A.

**Title: International Workshop on Magnetic Crystallography (24-30 November 2024, Dongguan, China)**

Number of Participants: ~80

Level of involvement of SIG in the activity:

- ☐ SIG3 members were involved as lecturers

**Title: Jana Ad Hoc Workshops (Prague, Czech Republic):**

**48<sup>th</sup> Ad hoc workshop on electron diffraction, Part 1, 21-22 October 2024**

**48<sup>th</sup> Ad hoc workshop on electron diffraction, Part 2, 24-25 October 2024**

**49<sup>th</sup> Ad hoc workshop on basics of Jana2020, 12-13 December 2024**

**50<sup>th</sup> Ad hoc workshop on Jana2020 advanced topics, 19-20 June 2025**

Number of Participants: 55

Level of involvement of SIG in the activity:

- ☐ SIG3 members involved in the organizing committee
- ☐ SIG3 members involved as lecturers
- ☐ endorsed (SIG logo on the web page/leaflets)

Sponsored by ECA? No

Other Sponsors/Organizers: Institute of Physics, Prague

Short Description: Small workshop on various topics connected with software Jana2020. Members of SIG3 will be the main organisers of the event.

**Title: Single Crystal Neutron Diffraction Data Reduction and Analysis (22 June 2024, Oak Ridge National Laboratory, USA)**

Number of Participants: ~20

Level of involvement of SIG in the activity:

- ☐ SIG3 members were involved as lecturers

**Title: Jana2020 workshop, 13-14 May 2025, Torun, Poland**

Number of Participants: 20

Level of involvement of SIG in the activity:

- ☐ SIG3 members involved in the organizing committee
- ☐ SIG3 members involved as lecturers
- ☐ endorsed (SIG logo on the web page/leaflets)

Sponsored by ECA? No

Short Description: A workshop about using Jana2020 for standard and modulated structures.

## **9. Future/Programmed Activities**

**Title: ECM35 (25-29 August 2025, Poznan, Poland)**

Number of Participants: ~1000

Level of involvement of SIG in the activity:

- ☐ SIG3 members will be involved in the organizing committee
- ☐ SIG3 members will be involved as lecturers

Other Sponsors/Organizers: ECA

Short Description: Members of SIG3 will participate in lectures and the organization of microsymbposia

**Title: 17<sup>th</sup> International Conference on Quasicrystals (2028)**

Number of Participants: ~50

Level of involvement of SIG in the activity:

- ☐ SIG3 members will be involved in the organizing committee
- ☐ SIG3 members will be involved as lecturers

Other Sponsors/Organizers: IUCr

Short Description: The annual conference about all aspects of quasicrystals

**Title: JANA2020 Workshop on magnetic structures @ MLZ (20-22 October 2025, Garching, Germany)**

Number of Participants: ~30

Level of involvement of SIG in the activity:

☐ SIG3 members involved in the program committee

☐ SIG3 members involved as lecturers

Other Sponsors/Organizers:

Short Description: Members of SIG3 will participate in lectures and the organization of the workshop

**Title: Sixth International School on Aperiodic Crystals (1-5 September 2025, Dresden, Germany)**

Number of Participants: ~50

Level of involvement of SIG in the activity:

☐ SIG3 members involved in the program committee

☐ SIG3 members involved as lecturers

Other Sponsors/Organizers:

Short Description: Members of SIG3 will participate in lectures and the organization of the school

**Title: Jana Ad Hoc Workshops (Prague, Czech Republic)**

Number of Participants: ~20

Level of involvement of SIG in the activity:

☐ SIG3 members involved in the organizing committee

☐ SIG3 members involved as lecturers

☐ endorsed (SIG logo on the web page/leaflets)

Sponsored by ECA? No

Other Sponsors/Organizers: Institute of Physics, Prague

Short Description: Small workshops on various topics connected with software Jana2020. Members of SIG3 will be the main organisers of the event.

**10. Other matters. (50 words max.)**

The Institute of Physics in Prague hosted the 50th Jana Ad Hoc Workshop. Organizing these fifty workshops took 16 years, and the total number of participants across all events was around 1,000.

**11. Brief annual activity report ( 100 words max.)**

The activities of SIG#3 centered around workshops and conferences. The highlight was the 16th International Conference on Quasicrystals, held in Nancy, which was a significant event in the field of aperiodic crystallography.

**12. List SIG officers, name and e-mail, and specify their main function in the SIG:**

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### **Supplementary Materials.**

None