



Combinatorics around the q -Onsager algebra

Kranjska Gora, Slovenia, 13–18 July 2020

<https://conferences.famnit.upr.si/event/15/>

We are happy to announce a conference next year entitled *Combinatorics around the q -Onsager algebra*, at which we will be celebrating the 65th birthday of Paul Terwilliger. This conference will take place in beautiful Kranjska Gora, Slovenia, from July 13–18, 2020. The general theme will be the mathematical topics that Paul has worked on over the years (which all have relationships to the q -Onsager algebra). These topics include the following:

- Topics in algebraic graph theory, such as distance-regular graphs, association schemes, the subconstituent algebra, and the Q -polynomial property;
- Topics in linear algebra, such as Leonard pairs, tridiagonal pairs, billiard arrays, lowering-raising triples, and a linear algebraic approach to the orthogonal polynomials of the Askey scheme;
- Topics in Lie theory, such as the tetrahedron algebra and the Onsager algebra;
- Topics in algebras and their representations, such as the equitable presentation of $U_q(\mathfrak{sl}_2)$, the q -tetrahedron algebra, the q -Onsager algebra in mathematical physics, and the universal Askey-Wilson algebra.

The confirmed invited speakers so far include:

- Eiichi Bannai (Shanghai Jiao Tong University, China)
- Pascal Baseilhac (Université de Tours, France)
- Samuel Belliard (Université Paris Saclay, France)
- Sarah Bockting-Conrad (DePaul University, Chicago, USA)
- Ada Chan (York University, Toronto, Canada)
- Sebastian Cioabă (University of Delaware, Newark, USA)
- Darren Funk-Neubauer (Colorado State University-Pueblo, USA)
- Hau-Wen Huang (National Central University, Zhongli, Taiwan)
- Tatsuro Ito (Anhui University, Hefei, China)
- Vaughan Jones (Vanderbilt University, Nashville, USA)
- Aleksandar Jurišić (University of Ljubljana, Slovenia)
- Jack Koolen (University of Science and Technology of China, Hefei, China)
- Tom Koornwinder (University of Amsterdam, Netherlands)
- Jae-ho Lee (University of North Florida, Jacksonville, USA)
- William Martin (Worcester Polytechnic Institute, Massachusetts, USA)
- Mikhail Muzychuk (Ben-Gurion University of the Negev, Beer-Sheva, Israel)
- Hiroshi Nozaki (Aichi University of Education, Kariya, Japan)
- Safet Penjić (University of Primorska, Koper, Slovenia)
- Sarah Post (University of Hawaii at Mānoa, USA)
- Hjalmar Rosengren (Chalmers University of Technology, Gothenburg, Sweden)
- Supalak Sumalroj (Silpakorn University, Bangkok, Thailand)
- Hajime Tanaka (Tohoku University, Sendai, Japan)
- Luc Vinet (Université de Montréal, Canada)
- Yuta Watanabe (Tohoku University, Sendai, Japan)
- Alexei Zhedanov (Renmin University of China, Beijing, China)



In addition to invited talks, a limited number of contributed talks will also be available.

Venue: Kranjska Gora is a popular and attractive mountain and tourist sports centre nestled in the Julian Alps at the triple border point of Slovenia, Italy and Austria. In winter Alpine skiers compete and top ski jumpers break new records at nearby Planica. Summer offers cyclists the challenge of conquering the highest Slovenian mountain pass, while hikers can enjoy more than 100 km of trails that incorporate many points of interest. See <https://www.kranjska-gora.si/en>.

Organisers: Štefko Miklavič, Mark MacLean

Further information: <https://conferences.famnit.upr.si/event/15/>

This will be a satellite conference of the 8th European Congress of Mathematics (8ECM), which will be held the prior week in Portorož, Slovenia (<https://www.8ecm.si>).