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## Plane partitions and $W$ algebras

*Tuesday, 28 June 2016 12:20 (25 minutes)*

I will talk about new example of  $W$  algebras depending on three integer numbers  $n, m, k$ . Category of representations of such algebras is equivalent (similar to Drinfeld–Kohno or Kazhdan–Lusztig theorem) to the category of representations of product of three quantum groups  $gl_{\{n|k\}}$ ,  $gl_{\{k|m\}}$  and  $gl_{\{m|n\}}$ . Irreducible representations of these  $W$  algebras have a basis labeled by plane partition with asymptotic conditions along three coordinate axes. Based on joint work with B. Feigin and G. Merzon [arXiv:1512.08779] and work in progress.

### Summary

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**Session Classification:** Plenary session