

DMITRY CHELKAK – LIST OF PUBLICATIONS

Preprints:

- D. Chelkak, K. Izuyurov: Holomorphic spinor observables in the critical Ising model. [arXiv:1105.5709](#)

Accepted:

- D. Chelkak, S. Smirnov: Universality in the 2D Ising model and conformal invariance of fermionic observables. [arXiv:0910.2045](#) (to appear in *Inventiones Mathematicae*)

Published:

- (1) Dmitry Chelkak, Stanislav Smirnov, Discrete complex analysis on isoradial graphs. *Advances in Mathematics*, 228 (2011), no. 3, 1590–1630
- (2) An application of the fixed point theorem to the inverse Sturm-Liouville problem. Chelkak, D.: *Записки научных семинаров ПОМИ*, 370 (2009), 203–218.
- (3) Обратная задача Штурма-Лиувилля со смешанными краевыми условиями. Е. Л. Коротяев, Д. С. Челкак: *Алгебра и анализ*, 21 (2009), no. 5, 114–137.
- (4) Weyl-Titchmarsh functions of vector-valued Sturm-Liouville operators on the unit interval. Chelkak, D.; Korotyaev, E.: *Journal of Functional Analysis* 257 (2009), 1546–1588.
- (5) The inverse problem for perturbed harmonic oscillator on the half-line with a Dirichlet boundary condition. Chelkak, D.; Korotyaev, E.: *Ann. Henri Poincaré* 8 (2007), no. 6, 1115–1150.
- (6) Parametrization of the isospectral set for the vector-valued Sturm-Liouville problem. Chelkak, D.; Korotyaev, E.: *Journal of Functional Analysis* 241 (2006), 359–373.
- (7) Spectral estimates for Schrodinger operator with periodic matrix potential on the real line. Chelkak, D.; Korotyaev, E.: *Int. Math. Res. Not.*, 2006, Article ID 60314, 1–41.
- (8) Inverse problem for harmonic oscillator perturbed by potential, characterization. Chelkak, D.; Kargaev, P.; Korotyaev, E.: *Comm. Math. Phys.* 249 (2004), no. 1, 133–196.
- (9) Inverse problem for harmonic oscillator perturbed by potential. Chelkak, D.; Kargaev, P.; Korotyaev, E.: Inverse problems and spectral theory, 93–102, *Cont. Math.* 348, AMS, Providence, RI, 2004.
- (10) Асимптотика спектральных данных гармонического осциллятора, возмущенного потенциалом с конечной энергией. Д. С. Челкак: *Зан. Науч. Сем. ПОМИ* 303 (2003) 223–271. English translation: *J. Math. Sci.* 129 (2005), no. 4, 4053–4082.
- (11) Аппроксимация в пространстве спектральных данных возмущенного гармонического осциллятора. Д. С. Челкак: *Проблемы Мат. Анализа* 26 (2003) 287–300, English translation: *J. Math. Sci.* 117 (2003), no. 3, 4260–4269.
- (12) An inverse problem for an harmonic oscillator perturbed by potential: uniqueness. Chelkak, D.; Kargaev, P.; Korotyaev, E.: *Lett. Math. Phys.* 64 (2003), no. 1, 7–21.