Kolokvij Grupe za računalne bioznanosti i Sekcije za teorijsku i računalnu kemiju Hrvatskog kemijskog društva

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CRITICAL CASIMIR FORCES BETWEEN DEFECTS IN 2D ISING MODEL

An exact solution for critical Casimir interaction between two defects of a certain type in the two-dimensional Ising model will be presented. Close to the critical point a scaling formula can be derived and the force still depends on some microscopic properties of the defects. The results will be compared with properties of the critical Casimir force in a slab geometry.