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The 2D Toda lattice plays an important role in algebraic geometry and integrable systems. Special periodic solutions, analogs of the rational, trigonometric, and elliptic KP solitons, have been explored by Krichever, Novikov, Zabrodin, Treibich, and others. I will explain a noncommutative-geometric point of view on these periodic solutions. (Received September 15, 2010)