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In this talk we will discuss the hyperbolic geometry of alternating link complements in the thickened torus. For links whose projection is related to a biperiodic edge-to-edge Euclidean tiling with convex regular polygons, we will describe the complete hyperbolic structure on their complements explicitly, and also highlight some properties of such tilings. We will also discuss some conjectures related to determinant, volume and their limits. (Received July 17, 2017)