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Rational Unimodular Interpolation on the Unit Circle

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Abstract. We consider an interpolation problem with n pairwise distinct nodes z_1, \dots, z_n and n numbers w_1, \dots, w_n , all on the unit circle in the complex plane, and seek interpolants $b(z)$ of minimal degree in the class consisting of ratios of finite Blaschke products. The focus is on cases where the interpolant of minimal degree is uniquely determined.

Keywords. Rational interpolation, Blaschke product.

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