

**CORRECTION :**  
**ON ORDER OF SUM OF THE SERIES OF**  
**ULTRASPHERICAL FUNCTIONS**

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In the proof of the lemma we have to take the following order in place of (2.7), (Cf. E. Kogbetliantz ; Bulletin de Société Mathématique de France, 51 (1923) 244-295)

$$P_n^{(\lambda)}(\cos \theta) \\ = O[(\sin \theta)^{-(\lambda-1/2)} \{n^{\lambda-1} \sin \omega_n (\sin \theta)^{-1/2} + (\sin \theta)^{-3/2} n^{\lambda-2}\}].$$

Break now the integral  $J_2$  into

$$\int_{1/n}^{n^{-1/2}} + \int_{n^{-1/2}}^{\beta}$$

The second part follows as before and the first part is  $o(n^{k+\lambda-1})$  by the property of the Lebesgue integral.