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 la Société Mathématique de France, 51 (1923) 244-295)

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

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.