

Posons

$$* P(t) = C_4^\alpha(t) = \frac{4}{6} \alpha(\alpha+1)(\alpha+2)(\alpha+3) t^4 - 12 \alpha(\alpha+1)(\alpha+2) t^2 + 3 \alpha(\alpha+1).$$

$$* C = C(\alpha) = \frac{\Gamma(\alpha+1) 4!}{\sqrt{\pi} \Gamma(\alpha+\frac{1}{2})} \frac{1}{2 \alpha(2\alpha+1)(2\alpha+2)(2\alpha+3)}$$

$$* f(u,v) = C \cdot \int_0^\pi j_{\alpha+4}(\sqrt{u^2+v^2-2uv\cos t}) \times (u^2+v^2-2uv\cos t)^2 \times P\left(\frac{u-v\cos t}{\sqrt{u^2+v^2-2uv\cos t}}\right) \times (\sin t)^{2\alpha} dt$$