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Mathematical
Physics

Recurrence and differential relations for spherical

spinors

Radosław

Szmytkowski

*(Submitted on 15
Nov 2010)*

We
present
a
comprehensive
table of
recurrence
and
differential
relations
obeyed
by spin
one-half
spherical
spinors
(spinor
spherical
harmonics)
 $\Omega_{\kappa\mu}$
 (\mathbf{n})
used in
relativistic
atomic,
molecular,
and solid
state
physics,