Seperable potentials

$$V(9',9) = g + (9') + (g)$$
 -- -- 0
 $+ (9) = exp(-\frac{94}{h^4})$

The solution to the LSE $R(9',9) = V(9',9) + P \int_{0}^{\infty} dk \, k^{2} \frac{M}{9^{2}-k^{2}} \, V(9',K) \, R(k,9)$ $R(9',9) = \gamma(9) f(9') f(9) - -- \bigcirc$ You can easily verify the above cursatz satisfies

the LSE. Substitute Eq. 2 hack to the LSE, you will find r(9), thus, R(9,9). On the other hand, you can solve for R(9,9) numerically with Eq. O.

Compare both.