CONCLUSION

We have shown that an analogue computer may be used to demonstrate the solutions of Schrödinger's equation in one-dimension for some simple systems effectively. Furthermore, the solution obtained on the oscilloscope are the real valued wavefunctions for various initial condition which can easily be adjusted to produces eigenfunctions. In my thesis the limitation of the computer available only allowed me to set up the simplest problem. If we have a more versatile, and more accurate computer, we can demonstrate the solution of Schrödinger's equation in other cases a few of which were discussed. Besides, we can extend these method to harmonic oscillation, radial wavefunctions of H-atom, the time-dependent Schrödinger equation in one-dimension, etc.

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