

Mécanique Quantique

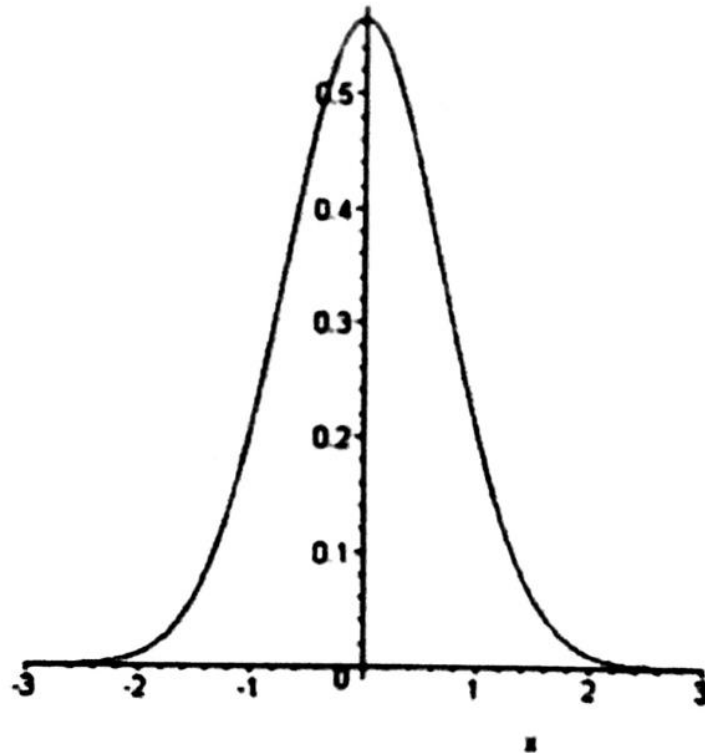
L3 - Physique 2021-2022

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5) L'oscillateur Harmonique (compléments)

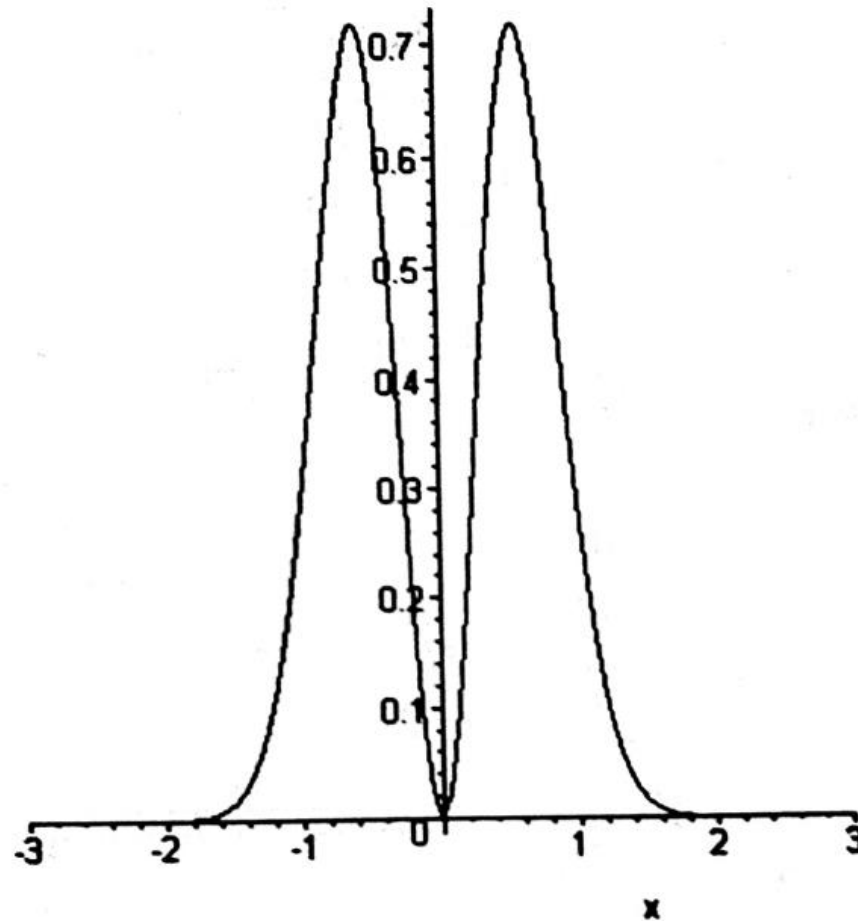
Mécanique Quantique

Densité de probabilité de présence



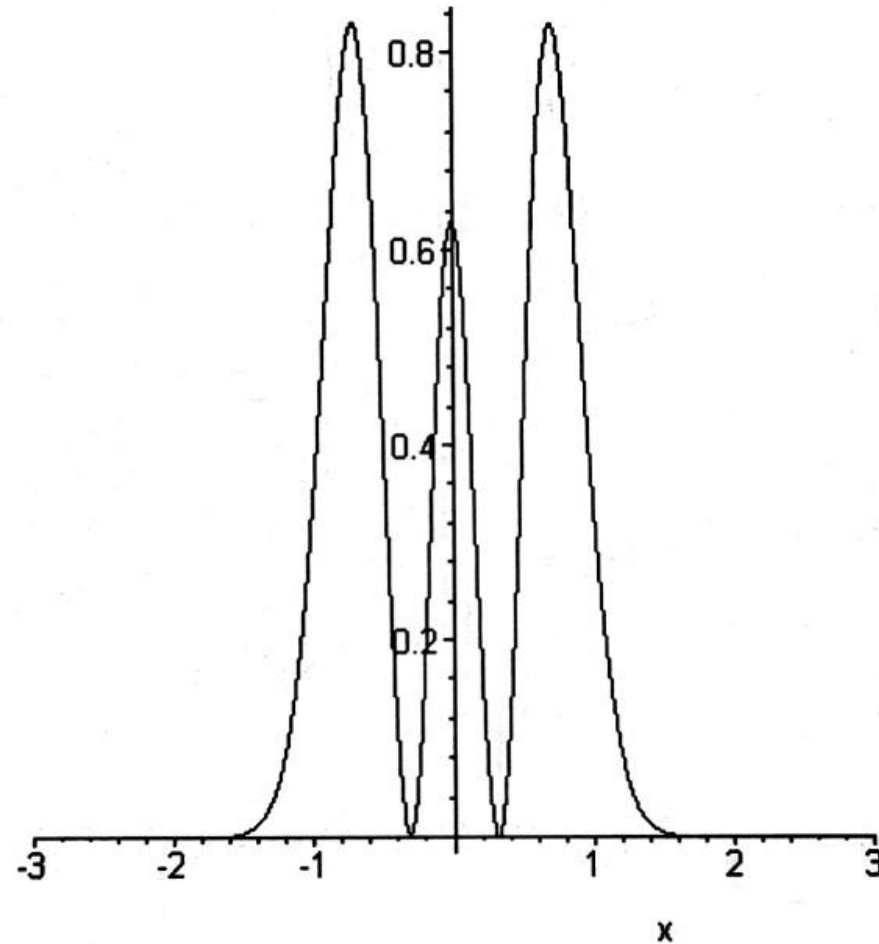
$n=0$

Mécanique Quantique



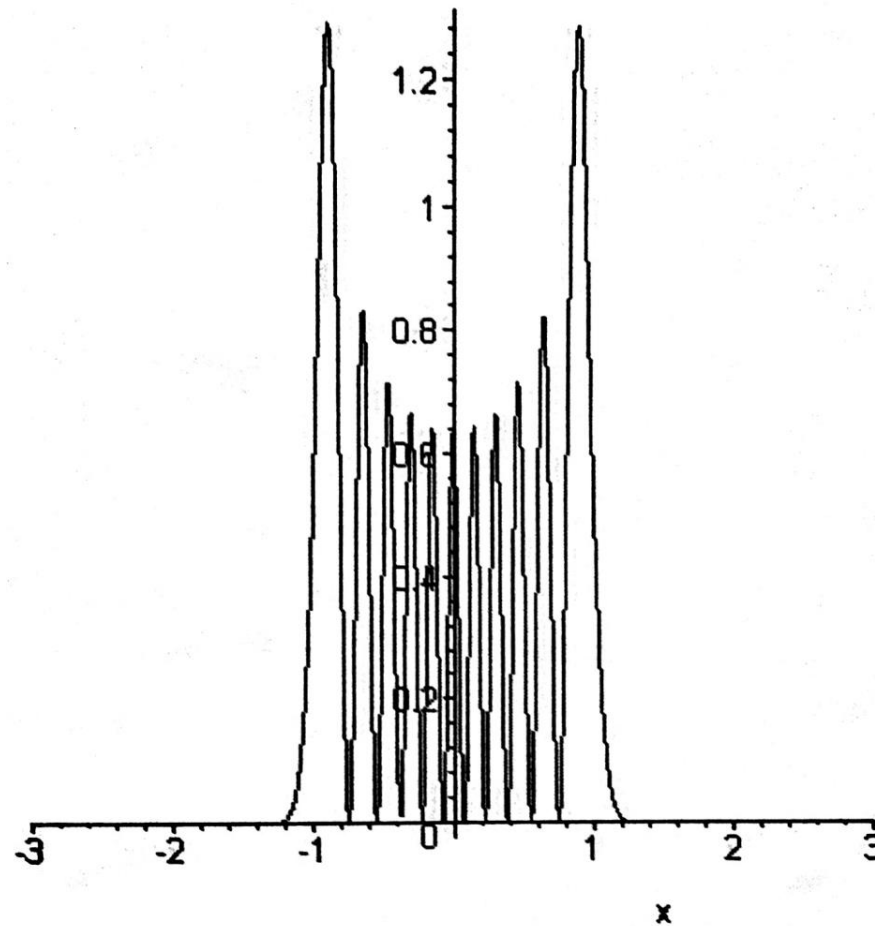
$n=1$

Mécanique Quantique



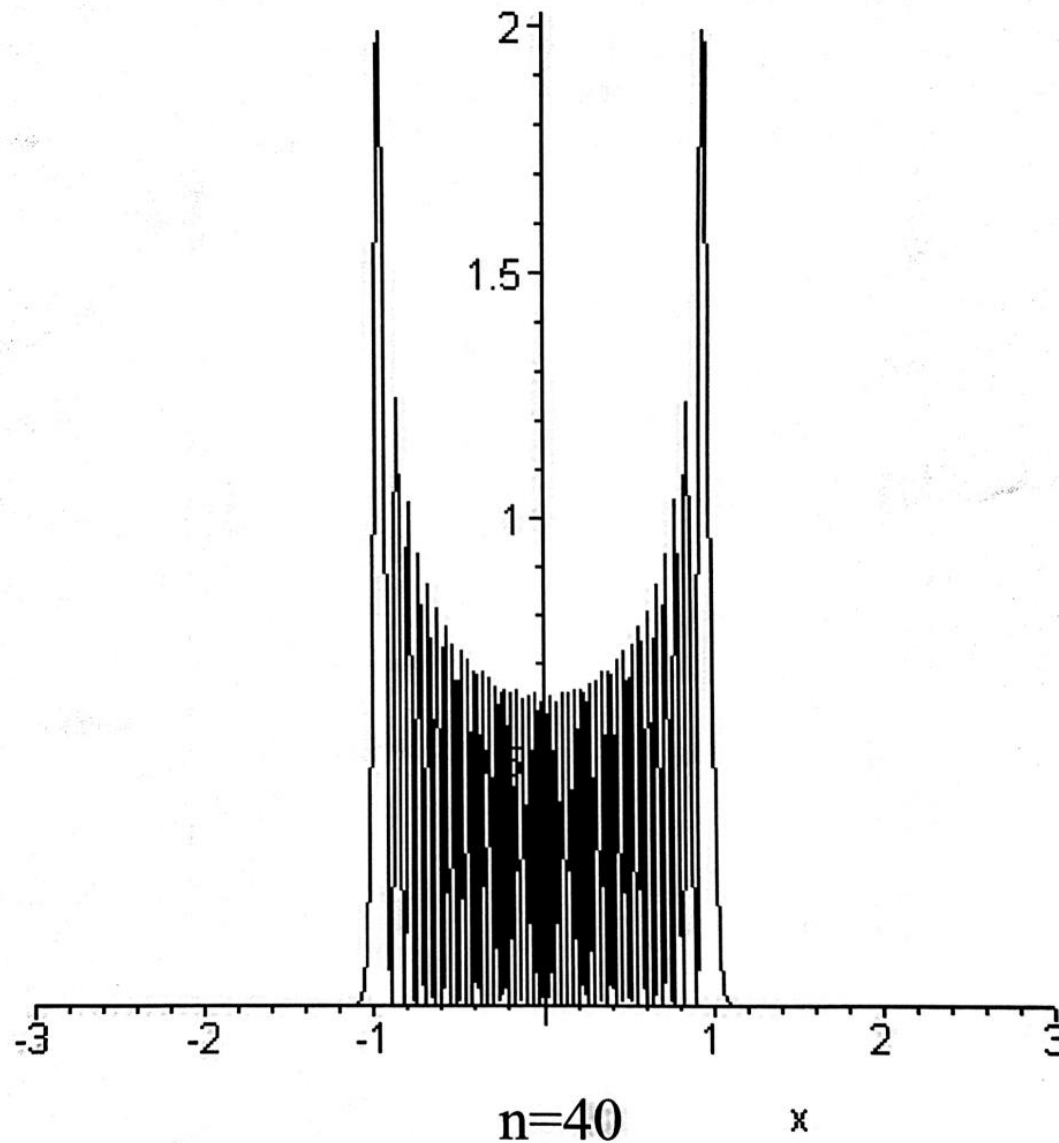
$n=2$

Mécanique Quantique



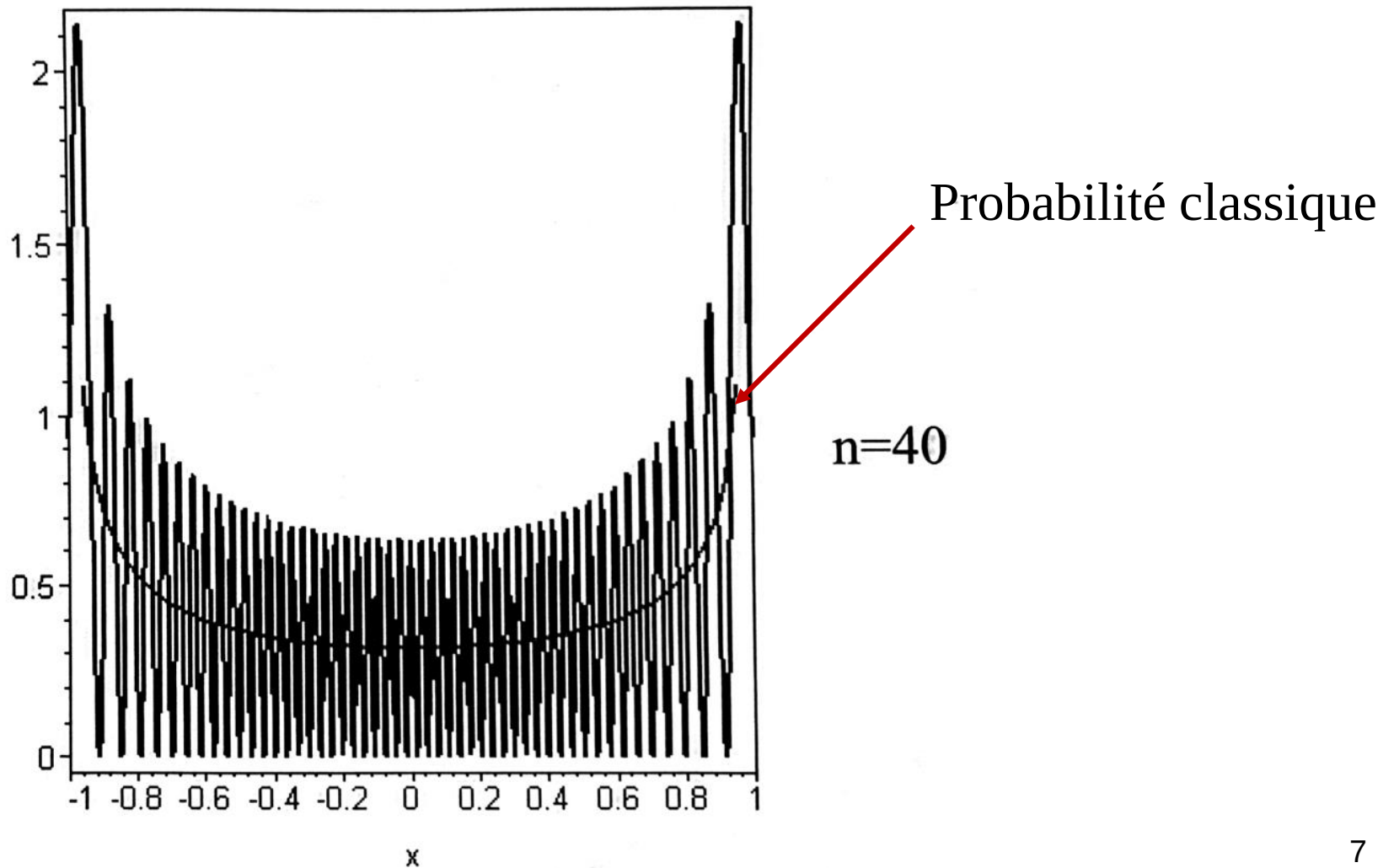
$n=10$

Mécanique Quantique



Mécanique Quantique

Limite semi-classique



Mécanique Quantique

Valeurs moyennes: limite semi-classique

$$\delta_n^p \equiv (\langle x^{2p} \rangle_n - \langle x^{2p} \rangle^{cl}) / \langle x^{2p} \rangle^{cl}$$

