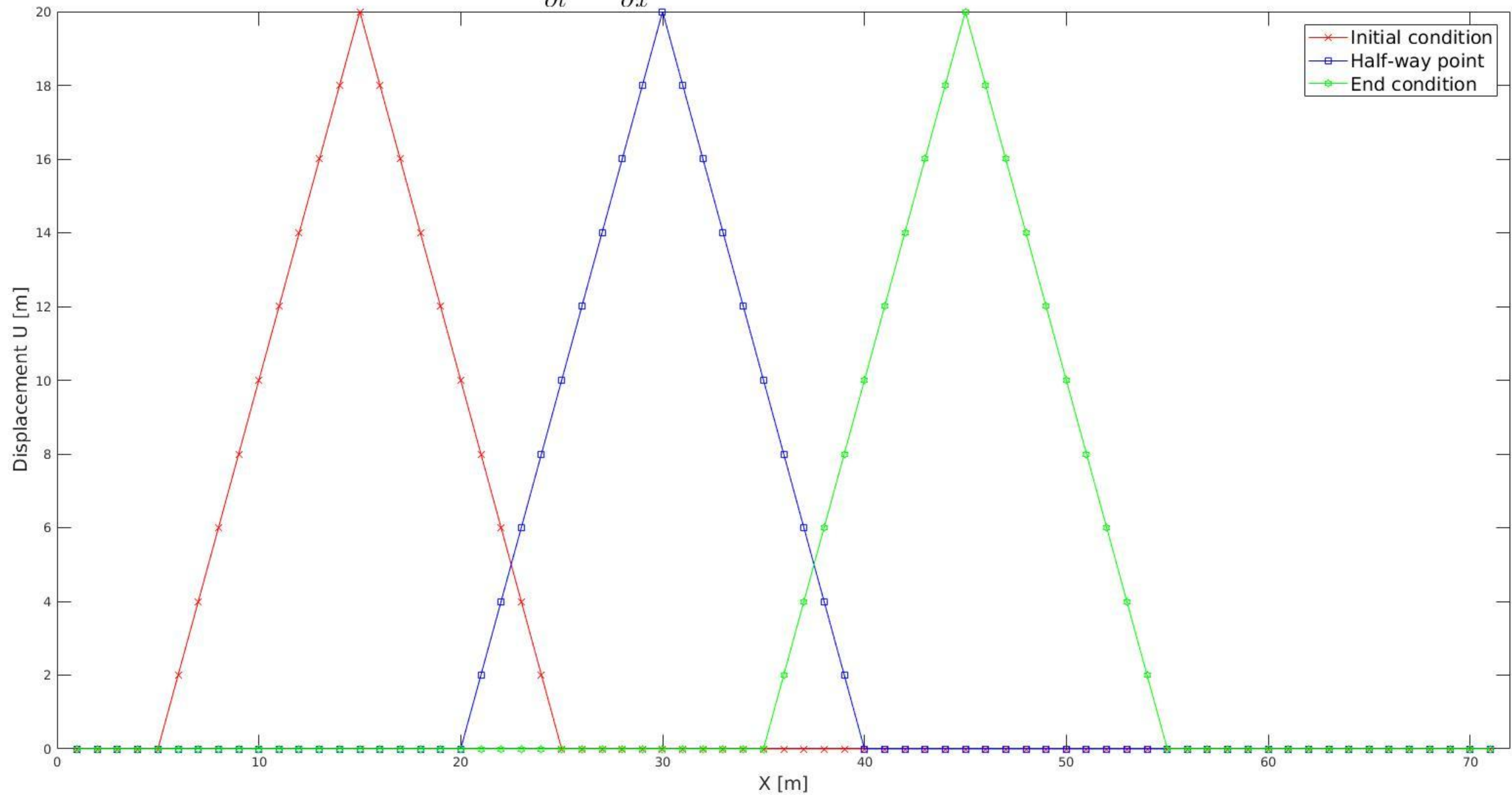
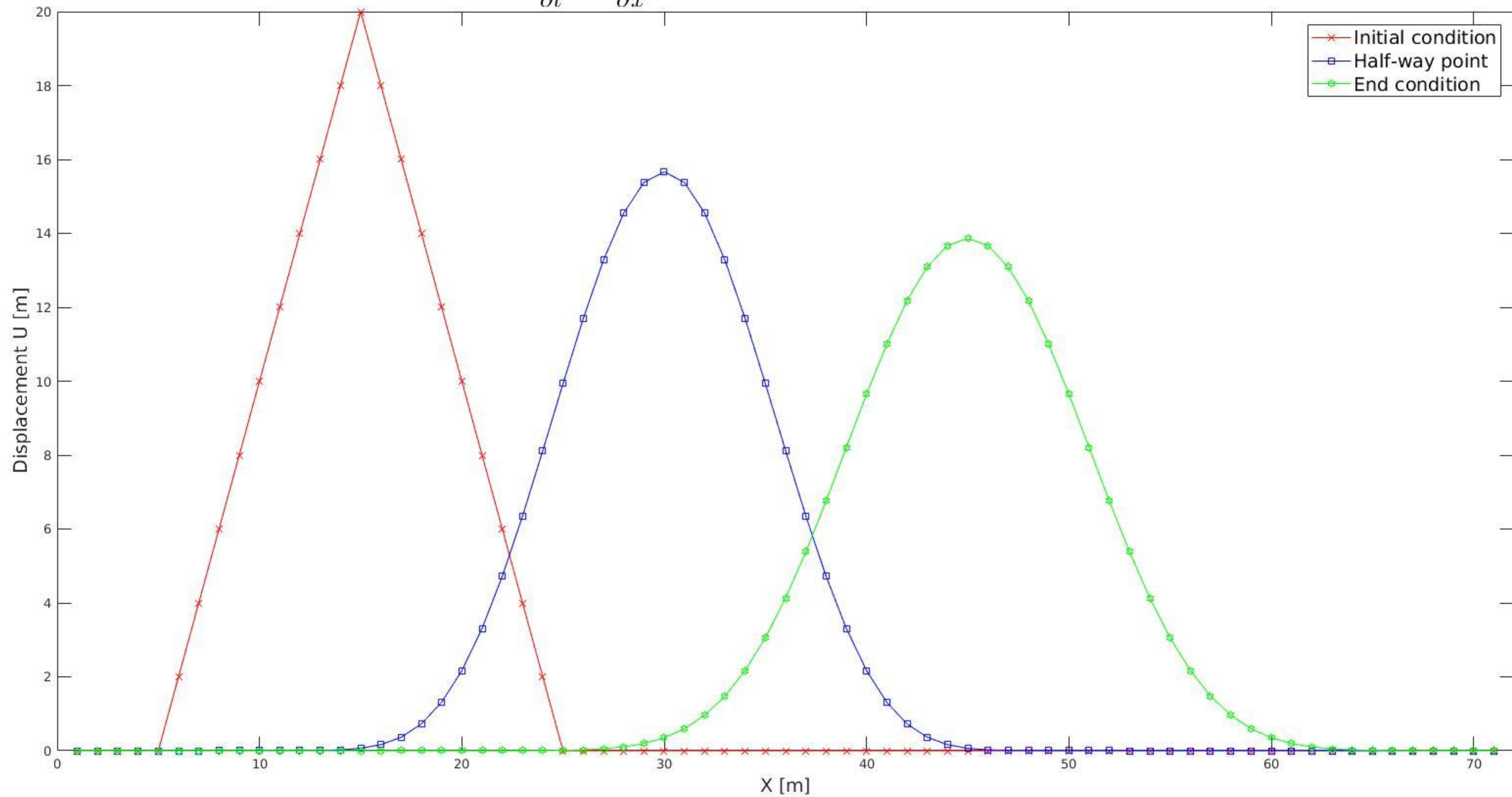


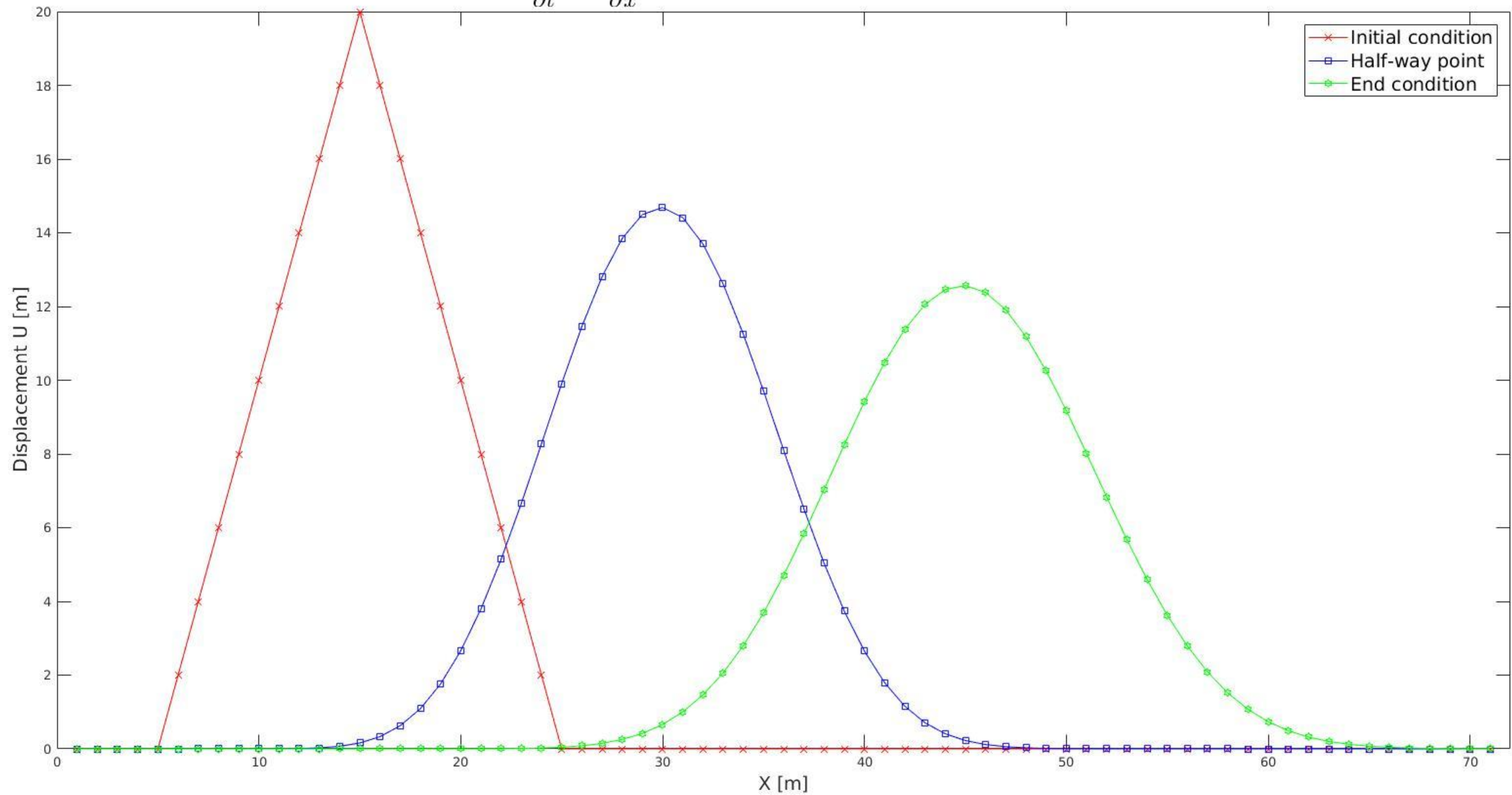
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ FTBS explicit scheme, } dt=0.005 \text{ sec}$$



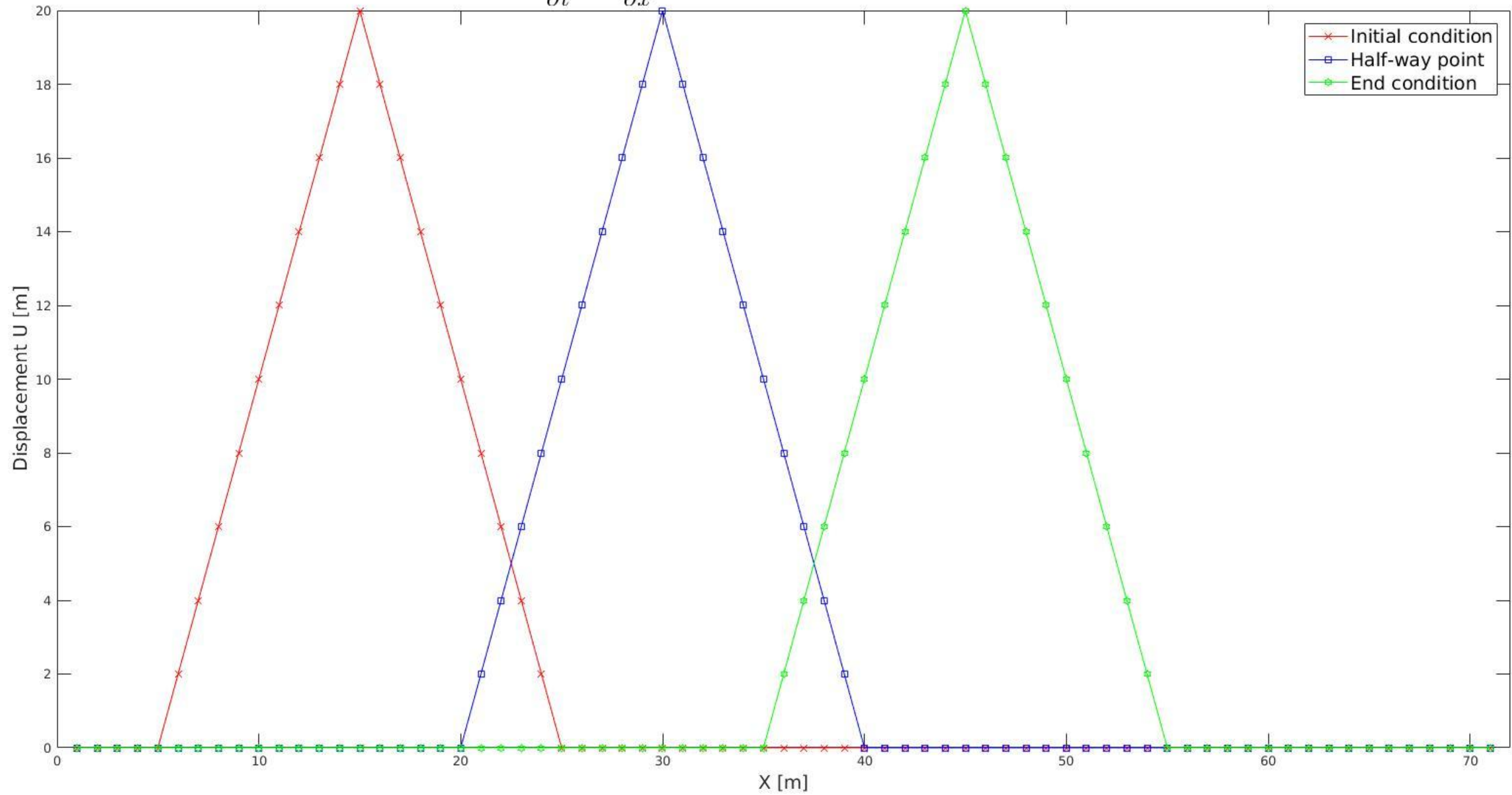
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ FTBS explicit scheme, } dt=0.0025 \text{ sec}$$



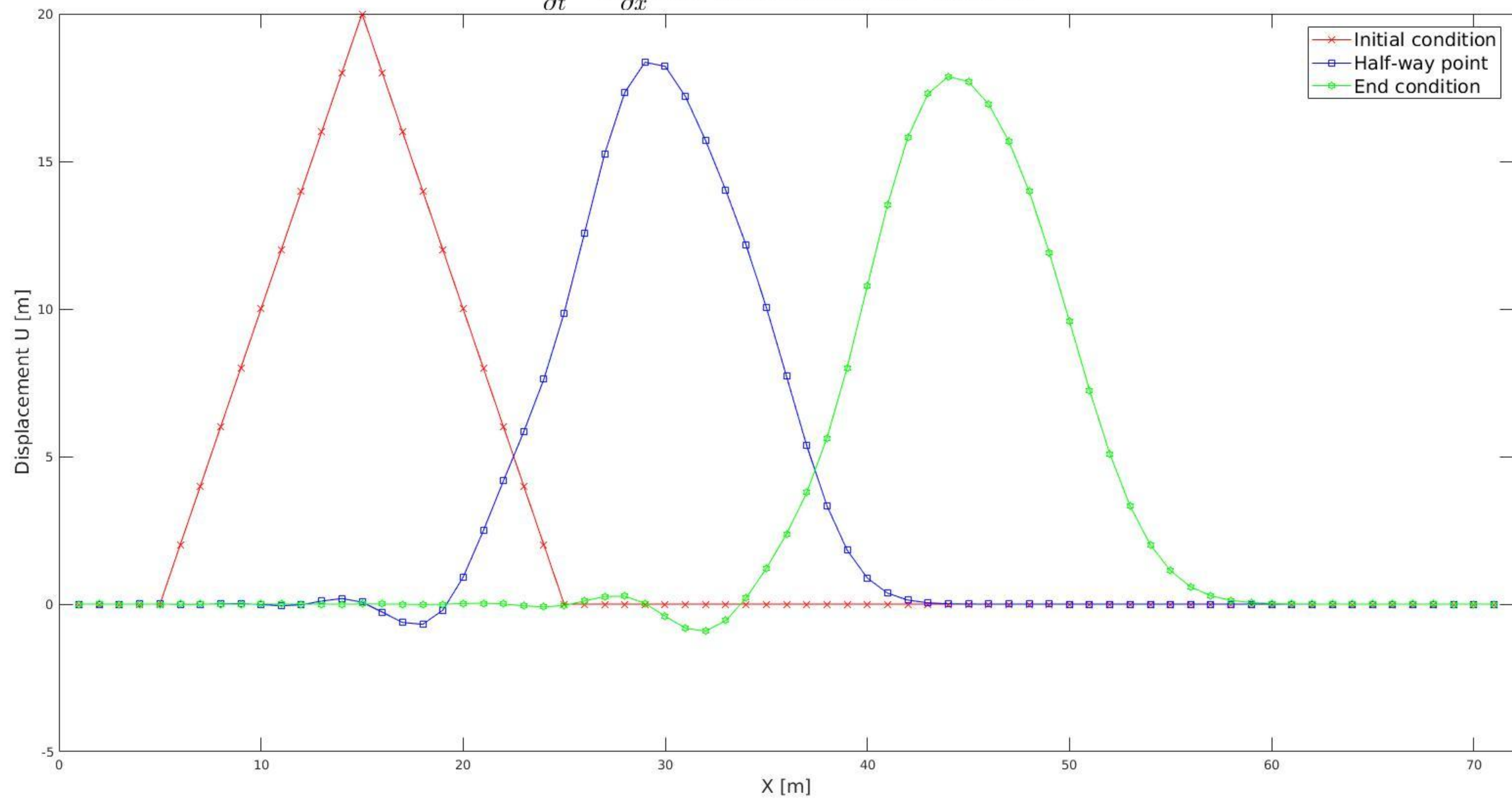
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ FTBS explicit scheme, } dt=0.00125 \text{ sec}$$



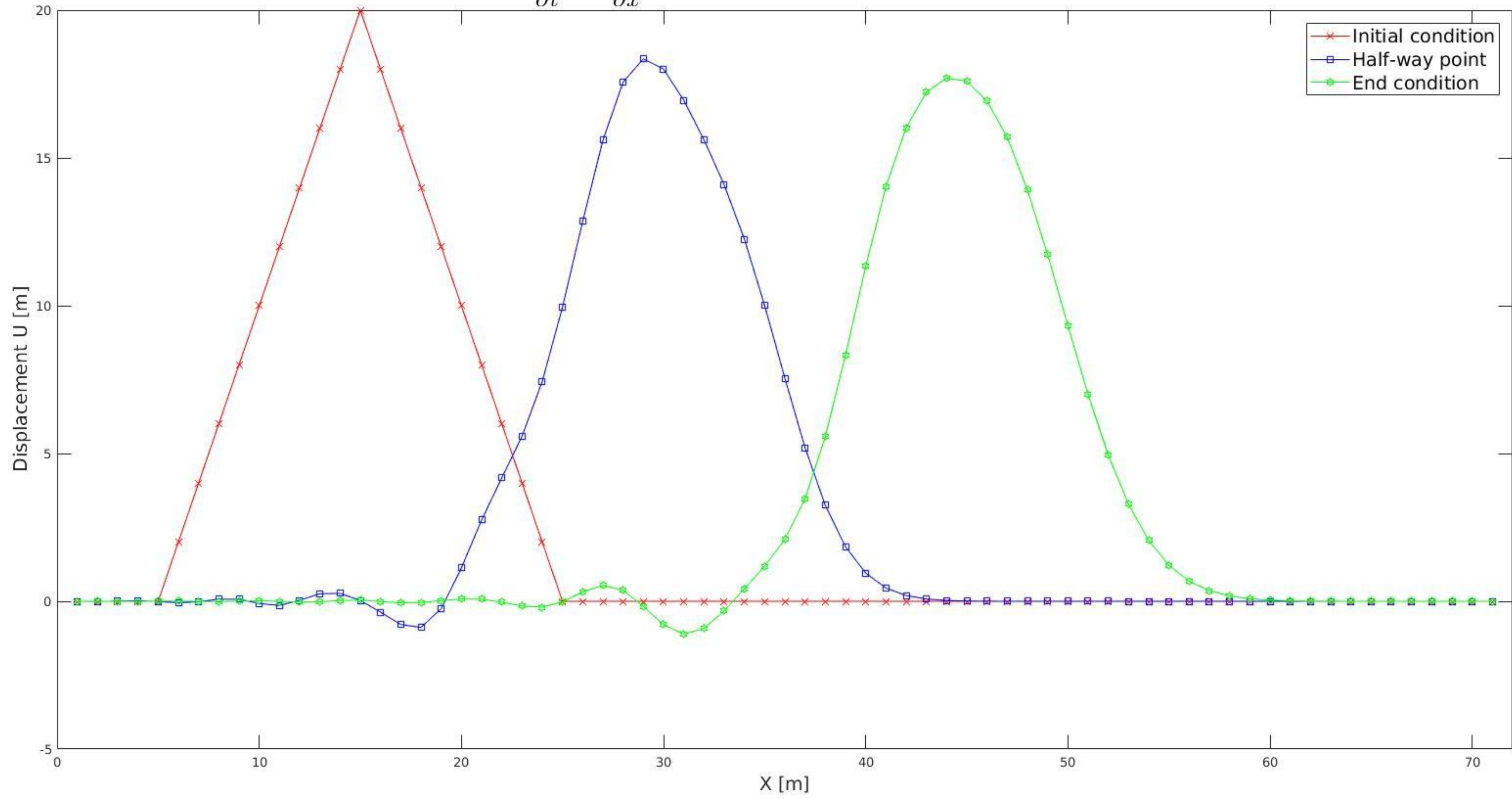
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ Lax-Wendroff scheme, } dt=0.005 \text{ sec}$$



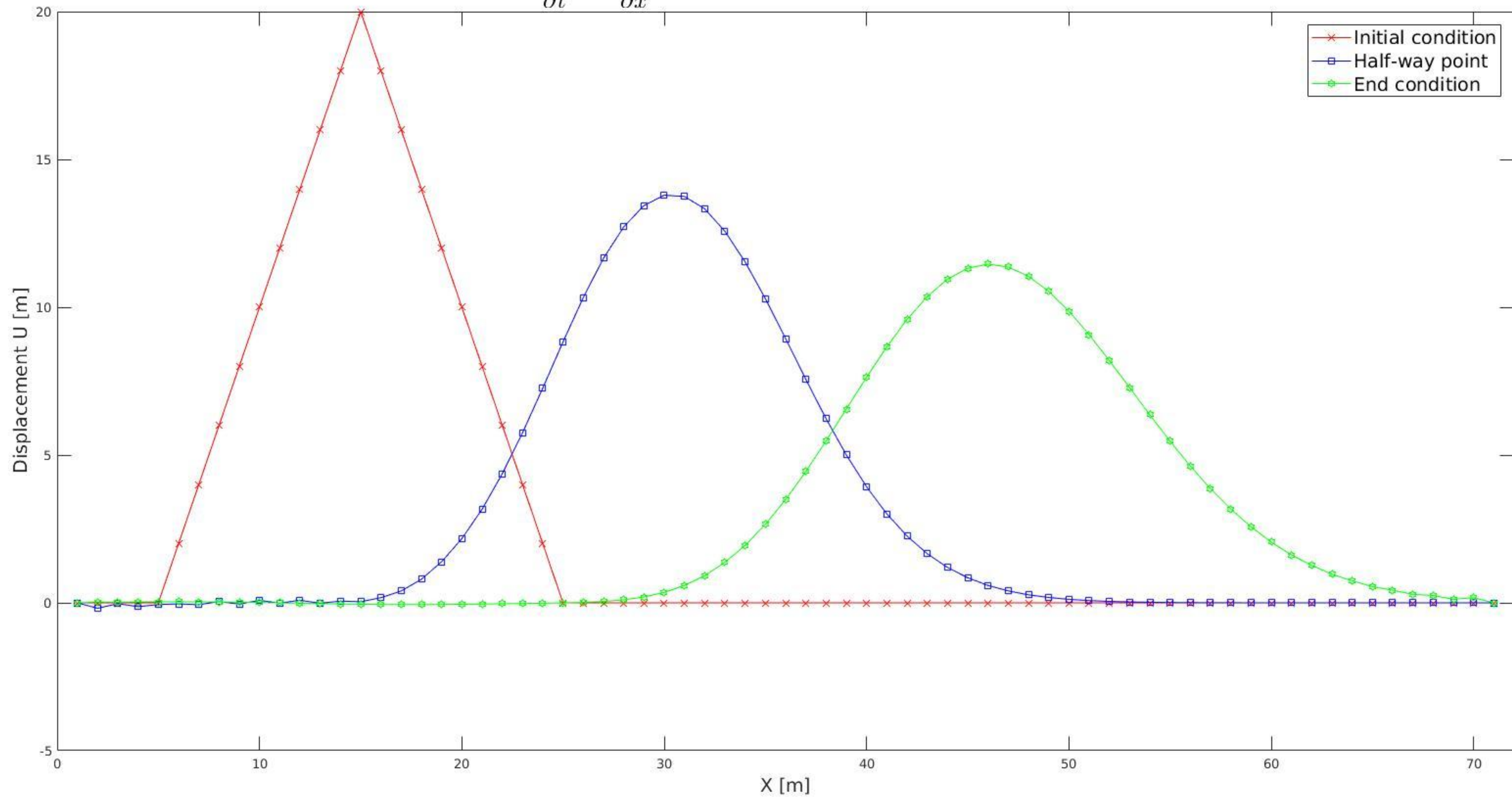
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ Lax-Wendroff scheme, } dt=0.0025 \text{ sec}$$



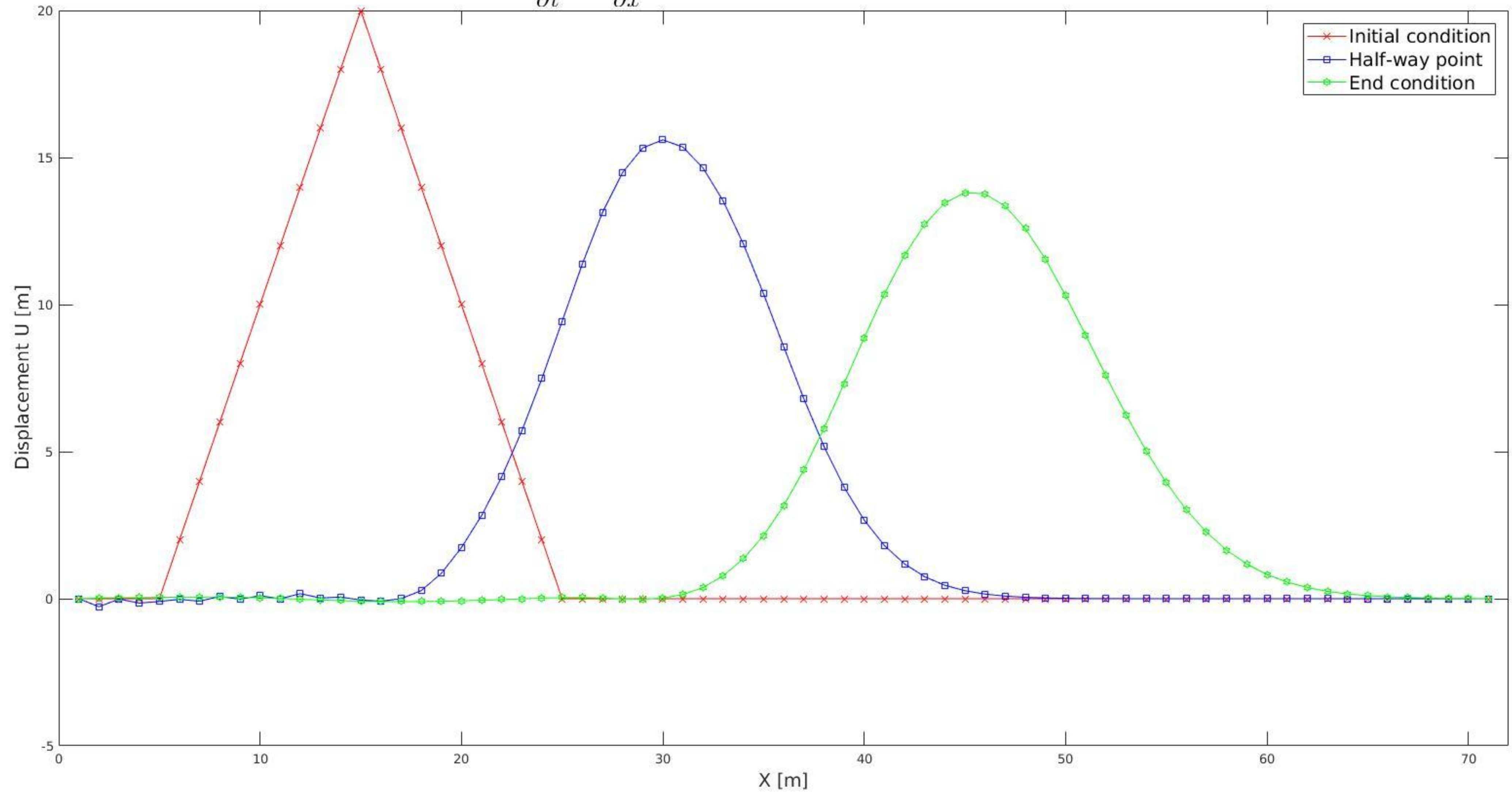
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ Lax-Wendroff scheme, } dt=0.00125 \text{ sec}$$



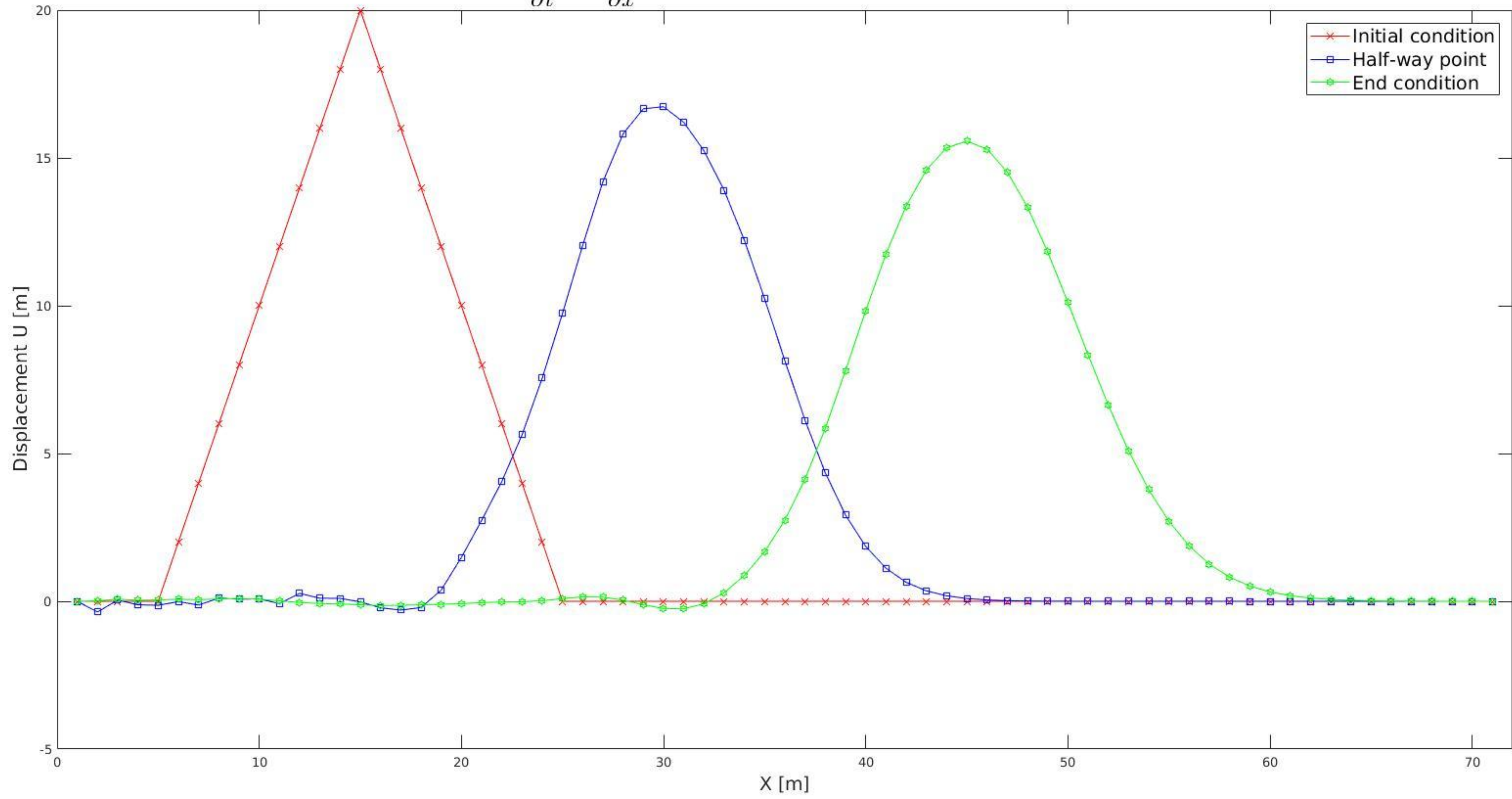
$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ BTCS implicit scheme, } dt=0.005 \text{ sec}$$



$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ BTCS implicit scheme, } dt=0.0025 \text{ sec}$$



$$\frac{\partial u}{\partial t} = \alpha \frac{\partial u}{\partial x}, \text{ BTCS implicit scheme, } dt=0.00125 \text{ sec}$$



$$\frac{\partial u}{\partial t} = -u \frac{\partial u}{\partial x}, \text{MacCormack scheme, dt}=0.1 \text{ sec}$$

