

Graph of temporal displacements:

Matrix representation of graph:

Indirect observation of velocity between t_2 & t_3

Displacement ($d_{0,4}$)

t_0 t_1 t_2 t_3 t_4

Image acquisition

16-day interval

Timeline

$$\mathbf{A}_G = \begin{matrix} & t_0 & t_1 & t_2 & t_3 & t_4 \\ \begin{matrix} t_0 \\ t_1 \\ t_2 \\ t_3 \\ t_4 \end{matrix} & \begin{pmatrix} 0 & 1 & 1 & 0 & 1 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix} \end{matrix}$$

Direct observation of velocity between t_2 & t_3