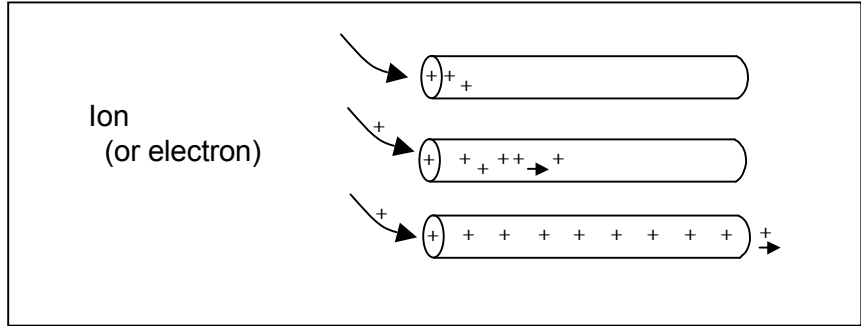


Flow of charge in a current

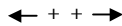
**Minute Sketch PDH first version
(surface content with deep content misconception)**



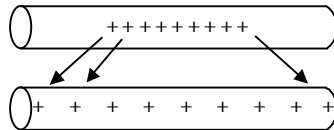
**Minute Sketch PDH later version
(correction of deep content misconception)**

Ions (or electrons)

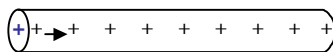
1. Similar charges repel



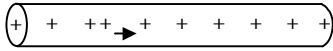
2. Trapped in tube, similar charges spread to max



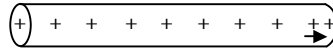
3. Add one charge to end, nearest similar charge moves away ...



So next nearest moves...

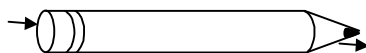


... and final charge pushed at the end

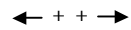


No charge moves entire distance

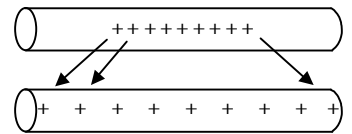
Analogy: Push on pencil eraser, and point moves, even though force only applied to molecules at eraser - each molecule pushes on neighbor....)



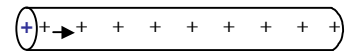
Repel



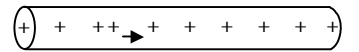
Repel max



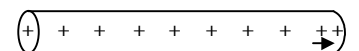
Add charge



Repel neighbor



End charge out



1st charge -- near beginning

Force --> each molecule pushes on neighbor....)

