Source: 2020PHYS201/KBe20phys250retCapacitorsLab.md

#ret #disorganized #incomplete

1 | **Charging Capacitors**

1.1 | **Voltage over Time**

1.2 | **Charge Stored**

2 | **Time Constant with Various Components**

Most of the analysis for data collected as a class was done on the "charge rate constant" (`time/RC`) of each circuit, defined as:

$$\frac{t}{RC}$$

`time/RC` is a unitless scalar that represents how quickly it takes to charge any capacitor for a given voltage. Voltage data was not collected during the experiment, so the voltage is assumed to be constant across trials.