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An extenision of Ramo's theorem include resistive elements

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With the introduction of resistive elements in the detector volumes, like for Restistive Plate Chambers or resistive MICROMEGAs, the signal induced on the readout electrodes will not only be determined by the movement of the primary charges but also by the movement of charges inside these resistive elements. This report will present an extension of Ramo's theorem to include these effects, that might have an application on solid state detectors where resistive layers are used either to evacuate charge or to introduce discharge protection.

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