How can I display the sum within the Jira default Filter Results gadget?

You have to enable the calculation row on a 'per-filter-basis' to be displayed within the Jira default Filter result gadget. To do so, head over to the issues navigator, access the sumUp configuration by clicking on the cog icon next to our Calculate button in the menu to the left, switch to Filter, and enable the filters you want to use by activating the checkboxes.

Check out this page to get the step-by-step guide.