- **Q:** Is there overlap removal and object selection applied for the default channel (`"999"` or `"DEFAULT"`)?

- **A:** We should start saying that `"DEFAULT"` and `"999"` flags refer to different things.

The `"DEFAULT"` flag refers to object selection/overlap removal and it is used to flag particles (jets, electrons, ...). And it means *"default cuts defined in `SUSYTools/src/SUSYDefinitions.cxx` "*. All particles passing this default built-in selection/overlap are flagged with this `"DEFAULT"`. You get the `"DEFAULT"` flag only if you have channels where you don't define `"customCuts"` keys. Otherwise, if you have only channels with custom selection/overlap you don't get any `"DEFAULT"` flag for your particles, because no default cuts are used to select particles.

Instead `"999"` is related to event selection and it is used to flag events. Every event, before event selection loop, is flagged as `"999"`. Then, if the event passes at least all the event selection cuts for one channel, the `"999"` flag is removed and the event is flagged with the channel name it passed. Thus you cannot have `"999"` and other flags for the same event. But you can have `"DEFAULT"` and other flags for the same particle (if you have channels using the default selection/overlap cuts).

If you apply skimming (`doSkimmingGlobal = True` in the steering file), you will not have any event flagged as `"999"`, because events not passing any channel are skimmed out.

-- RiccardoMariaBianchi - 04 Mar 2009

This topic: Main > ATLASWatchManFAQ999DEFAULT
Topic revision: r1 - 2009-03-04 - RiccardoMariaBianchi