Analysis proposals from femtoscopy

Please submit Your analysis proposals in the form shown below. I would prefer if each femto member can add his proposals by editing this page. Please do not forget to put Your name after the proposal!

Analysis proposal

Physics: Pion femtoscopic 1D and 3D correlation functions as a function of pair momentum $kt$
PWG subgroup: femtoscopy
Code status: All the code ready and committed to PWG2/FEMTOSCOPY in SVN
Configuration macro: Ready
-- AdamKisiel - 11 Feb 2009

Physics: Pion femtoscopic correlation function is spherical harmonics
PWG2 subgroup: femtoscopy
Code status: Code private, tested withing AliRoot, ready to be submitted to SVN
Configuration macro: private version tested
-- AdamKisiel - 11 Feb 2009

Physics: Pion femtoscopic 3D correlation function vs $kt$ and $y$ with UNICOR
PWG2 subgroup: femtoscopy
Code status: Code private, tested withing AliRoot, close to be submitted to SVN
Configuration macro: private version tested
-- DariuszMiskowiec - 18 Feb 2009

- - -> Put Your proposal here <- - - ---
Etc.

The main purpose of collecting analysis proposals is to determine which analyses are in an advanced enough state, so that they can be considered for the inclusion in the coming train and which should wait for the next one. It is also necessary to monitor the development of each analysis, in order to gain experience on how much time it takes to develop code/configuration macros for a given analysis.
Please specify You initials in the physics description, so that we can identify persons resposible for given tasks/code/configuration macros.

Examples of analysis blocks

When a physics analysis proposal has the corresponding code and configuration macro in a working state, it should be added to the table below.
Please fill in the additional information specified below.

<table>
<thead>
<tr>
<th>Physics description</th>
<th>Required input</th>
<th>Type of output</th>
<th>Libraries used</th>
<th>Macro status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pion CF vs. $kt$ (AK)</td>
<td>ESD or AOD</td>
<td>2x $kt$ bins &gt; TH1D data 3x $kt$ bin &gt; TH3D data ~10x $kt$ bin &gt;!TH2D control histos ~10x $kt$ bin &gt;!TH1D control</td>
<td>PWG2femtoscopy PWG2femtoscopyUser</td>
<td>Done &lt;ALICE HOME&gt;/trains/train1/ConfigFemtoAnalysis.C</td>
</tr>
<tr>
<td>Pion CF vs. kt vs. mult (AK)</td>
<td>ESD or AOD</td>
<td>2x &lt;mult bins&gt; x &lt;kt bins&gt; TH1D data 3x &lt;mult bin&gt; x &lt;kt bins&gt; TH3D data ~10x &lt;mult bin&gt; x &lt;kt bins&gt; TH2D control histos ~10x &lt;mult bin&gt; x &lt;kt bins&gt; TH1D control histos</td>
<td>PWG2femtoscopy PWG2femtoscopyUser</td>
<td>Done &lt;ALICE HOME&gt;/trains/train2/ConfigFemtoAnalysis.C</td>
</tr>
<tr>
<td>Pion CF in Spherical Harmonics (AK)</td>
<td>ESD or AOD/Kinematics</td>
<td>20 x TH1D data 2x TH3D data</td>
<td>PWG2femtoscopy PWG2femtoscopyUser</td>
<td>Done &lt;ALICE HOME&gt;/trains/train2/ConfigFemtoAnalysisSH.C</td>
</tr>
<tr>
<td>Pion-kaon CF (AK)</td>
<td>ESD or AOD</td>
<td>12 x TH1D data ~20 TH2D control histos ~20 TH1D control histos</td>
<td>PWG2femtoscopy PWG2femtoscopyUser</td>
<td>In preparation</td>
</tr>
<tr>
<td>Kaon-kaon CF (JINR-ITEP)</td>
<td>ESD or AOD/Kinematics</td>
<td>12 x TH1D data ~23 TH2D control histos ~30 TH1D control histos</td>
<td>PWG2femtoscopy PWG2femtoscopyUser</td>
<td>In preparation</td>
</tr>
</tbody>
</table>

-- AdamKisiel - 11 Feb 2009

This topic: AliFemto > FirstAnalysisTrainexercise
Topic revision: r5 - 2009-02-23 - BorisHippolyte

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