



- [JRA3 \(Workflows\) Wiki](#) <sup>4</sup>
- [Support](#) <sup>5</sup>
- The EUFORIA Wikipedia entry in [English](#) <sup>6</sup>, [Deutsch](#) <sup>7</sup>, [Español](#) <sup>8</sup>, [Français](#) <sup>9</sup>, [Slovenian](#) <sup>10</sup> and [Suomi](#) <sup>11</sup>

## 3 Meetings

### 3.1 2010 EU-US Workshop on Software Technologies for Integrated Modelling

When: December 1-3 (09:00 - 17:00)

Where: Chalmerska Huset, Södra Hamngatan 11, Göteborg, SWEDEN (Wednesday, Thursday) Lilla bommens Konferenscenter, Lilla Bommen 4, Room Carmen (Friday)

A three day workshop discussing the progress and developments of the Integrated modelling activities in EU and US.

#### 3.1.1 Subject Areas

Data structure methodologies

- Interface technologies
- Execution engines and Frameworks
- Cross validation/testing opportunities

#### 3.1.2 Presentations

- *Overview of the European Integrated Tokamak Modelling Task Force* ([pdf](#) <sup>12</sup>), by G. Falchetto
- *Center for Simulations of Wave Interactions with MHD (SWIM)* ([pdf](#) <sup>13</sup>), by D. Batchelor
- *A Brief Introduction to FACETS* ([pdf](#) <sup>14</sup>), by T. Epperly
- *Tour de Project: Proto-FSP CPES* ([pdf](#) <sup>15</sup>), by C.S. Chang
- *EUFORIA - Brief Overview* ([pdf](#) <sup>16</sup>), by P. Strand
- *Center for Extended MHD Modeling (CEMM)* ([pdf](#) <sup>17</sup>), by S. Jardin
- *Fusion Simulation Program (FSP)* ([pdf](#) <sup>18</sup>), by W.M. Tang (presented by C.S. Chang)
- *ITER Needs and Requirements* ([ppt](#) <sup>19</sup>), ([wmv](#) <sup>20</sup>), by W.A. Houlberg
- *Detailed Overview of the Plasma State Software* ([pdf](#) <sup>21</sup>), by D. McCune

<sup>4</sup><http://scilla.man.poznan.pl:8080/confluence>

<sup>5</sup><https://support.euforia-project.eu/>

<sup>6</sup>[http://en.wikipedia.org/wiki/EUFORIA\\_project](http://en.wikipedia.org/wiki/EUFORIA_project)

<sup>7</sup><http://de.wikipedia.org/wiki/EUFORIA-Projekt>

<sup>8</sup>[http://es.wikipedia.org/wiki/Proyecto\\_EUFORIA](http://es.wikipedia.org/wiki/Proyecto_EUFORIA)

<sup>9</sup>[http://fr.wikipedia.org/wiki/Projet\\_EUFORIA](http://fr.wikipedia.org/wiki/Projet_EUFORIA)

<sup>10</sup>[http://sl.wikipedia.org/wiki/Projekt\\_EUFORIA](http://sl.wikipedia.org/wiki/Projekt_EUFORIA)

<sup>11</sup><http://fi.wikipedia.org/wiki/EUFORIA-projekti>

<sup>12</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/ITM\\_Overview\\_GF.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/ITM_Overview_GF.pdf)

<sup>13</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/US-EU\\_SWIM\\_Overview.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/US-EU_SWIM_Overview.pdf)

<sup>14</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/EpperlyFacetsIntro20101203.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/EpperlyFacetsIntro20101203.pdf)

<sup>15</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/CPES\\_Tour\\_de\\_Project.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/CPES_Tour_de_Project.pdf)

<sup>16</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/EUFORIA\\_EU-US.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/EUFORIA_EU-US.pdf)

<sup>17</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Jardin-CEMM.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Jardin-CEMM.pdf)

<sup>18</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/FSP.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/FSP.pdf)

<sup>19</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/T101101\\_EU-US.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/T101101_EU-US.ppt)

<sup>20</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Casper\\_PFValid.wmv](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Casper_PFValid.wmv)

<sup>21</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/PS\\_Overview\\_2010.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/PS_Overview_2010.pdf)

- *Consistent Physical Objects - A data structure concept for Integrated Modelling* ( [ppt<sup>22</sup>](#)), by F. Imbeaux
- *Code Specific Parameters* ( [pdf<sup>23</sup>](#)), by C. Konz
- *Storing Data on a Grid / AMNS* ( [ppt<sup>24</sup>](#)), by D. Coster
- *ADIOS 1.2* ( [pdf<sup>25</sup>](#)), by S. Klasky
- *Universal Access Layer* ( [pdf<sup>26</sup>](#)), by G. Manduchi
- *LSDF - Large Scale Data Facility at KIT* ( [pdf<sup>27</sup>](#)), by M. Hardt
- *Distributed Resources in Kepler* ( [ppt<sup>28</sup>](#)), by M. Plociennik
- *Code Interface - FC2K, WS2K & HPC2K Tools* ( [ppt<sup>29</sup>](#)), by B. Guillerminet
- *IMP12 Kepler Workflows* ( [pdf<sup>30</sup>](#)), by C. Konz
- *Design Elements of EFFIS and Weak & Strong Couplings in CPES* ( [pdf<sup>31</sup>](#)), by C.S. Chang
- *The Integrated Plasma Simulator: Framework for Loosely Coupled Codes* ( [pdf<sup>32</sup>](#)), by W.R. Elwasif
- *ETS: Design Elements - Integrated Modelling* ( [ppt<sup>33</sup>](#)), ( [movie1<sup>34</sup>](#)) ( [movie2<sup>35</sup>](#)) by D. Coster
- *Free-Boundary Modeling of NSTX Plasmas* ( [pdf<sup>36</sup>](#)), by S. Jardin
- *FACETS - A Tightly-coupled Framework for Integrated Fusion Modeling* ( [pdf<sup>37</sup>](#)), by T. Epperly
- *Assembling a SWIM IPS Simulation* ( [pdf<sup>38</sup>](#)), by D. Batchelor

### 3.1.3 Participants

- Pär Strand, Chalmers
- David Coster, Max Planck Institute for Plasma Physics
- Marcin Plociennik, PSNC
- Scott Klasky, ORNL
- Gabriele Manduchi, Consorzio RFX
- Frédéric Imbeaux, CEA CADARACHE
- Christian Konz, Max-Planck-Institute for Plasma Physics
- Roberto Paccagnella, Consorzio RFX

<sup>22</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/CPQ\\_Imbeaux.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/CPQ_Imbeaux.ppt)

<sup>23</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Code\\_parameters.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Code_parameters.pdf)

<sup>24</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/CPQs\\_GRID-AMNS.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/CPQs_GRID-AMNS.ppt)

<sup>25</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Adios-1.2-12-2-2010-eff-to-par.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Adios-1.2-12-2-2010-eff-to-par.pdf)

<sup>26</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/UALDecember2010.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/UALDecember2010.ppt)

<sup>27</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/lsdf.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/lsdf.pdf)

<sup>28</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Distributed\\_workflows\\_m.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Distributed_workflows_m.ppt)

<sup>29</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Guillerminet\\_Code\\_Interface.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Guillerminet_Code_Interface.ppt)

<sup>30</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Kepler\\_workflows\\_imp12.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Kepler_workflows_imp12.pdf)

<sup>31</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Chang\\_EFFIS\\_DesignElements.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Chang_EFFIS_DesignElements.pdf)

<sup>32</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Elwasif\\_SWIM\\_EU\\_USA\\_Meeting.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Elwasif_SWIM_EU_USA_Meeting.pdf)

<sup>33</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/ETS.ppt](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/ETS.ppt)

<sup>34</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Psi\\_5\\_42.mpg](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Psi_5_42.mpg)

<sup>35</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Comb\\_psi\\_5\\_42.mpg](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Comb_psi_5_42.mpg)

<sup>36</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Jardin-SWIM.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Jardin-SWIM.pdf)

<sup>37</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/EpperlyFacets20101203.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/EpperlyFacets20101203.pdf)

<sup>38</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Assembling\\_a\\_SWIM\\_IPS\\_Simulation.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Assembling_a_SWIM_IPS_Simulation.pdf)

<sup>38</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu\\_us\\_workshop\\_goeteborg\\_2010/Assembling\\_a\\_SWIM\\_IPS\\_Simulation.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/eu_us_workshop_goeteborg_2010/Assembling_a_SWIM_IPS_Simulation.pdf)

- Wael Elwasif Oak Ridge National Laboratory
- Bernard Guillerminet, CEA
- Stephen Jardin, Princeton Plasma Physics
- David Bernholdt, Oak Ridge National Laboratory
- Donald Batchelor, ORNL
- C-S Chang, New York University
- Gloria Falchetto, CEA
- Wolfgang Zwingmann, European Commission, Research Directorate
- Tom Epperly, Lawrence Livermore National Laboratory
- Marcus Hardt, KIT
- Wayne Houlberg, ITER Organization
- Doug McCune, PPPL

### 3.1.4 Projects represented

- [EUFORIA](#) <sup>39</sup>
- [ITM-TF](#) <sup>40</sup>
- [CPES](#) <sup>41</sup>
- [FACETS](#) <sup>42</sup>
- [CSWIM](#) <sup>43</sup>
- [TRANSP](#) <sup>44</sup>
- [CEMM](#) <sup>45</sup>

### 3.1.5 Links

[EUFORIA Wiki](#) <sup>46</sup>

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last update: 2011-03-23 by coster

## 3.2 EUFORIA Final Review

When: March 30, 2011

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<sup>39</sup><http://www.euforia-project.eu/EUFORIA/>

<sup>40</sup><https://www.efda-itm.eu/WORLD/html/>

<sup>41</sup><http://www.cims.nyu.edu/cpes/>

<sup>42</sup><https://www.facetsproject.org/>

<sup>43</sup><http://cswim.org/>

<sup>44</sup><http://w3.pppl.gov/transp/>

<sup>45</sup><http://w3.pppl.gov/cemm/>

<sup>46</sup>[https://wiki.eu-euforia.eu/index.php/EU-US\\_workshop\\_2010](https://wiki.eu-euforia.eu/index.php/EU-US_workshop_2010)

### 3.2.1 Presentations

- Agenda ([pdf](#) <sup>47</sup>)
- Introduction Impact of EUFORIA (Pr, David) ([pdf](#) <sup>48</sup>) ([Movie](#) <sup>49</sup>) ([Movie](#) <sup>50</sup>)
- NA2: Training (Adrian) ([pdf](#) <sup>51</sup>)
- NA3: Dissemination (Miguel) ([pdf](#) <sup>52</sup>)
- SA1: Grid (Marcus) ([pdf](#) <sup>53</sup>)
- SA2: HPC (Adrian) ([pdf](#) <sup>54</sup>)
- SA3: User support (Adrian) ([pdf](#) <sup>55</sup>)
- Cloud pilot: Cloud demo (Marcin) ([pdf](#) <sup>56</sup>) ([movie](#) <sup>57</sup>)
- JRA1 Code adaptation for grid (Paco) ([pdf](#) <sup>58</sup>)
- JRA2 Code adaptation for HPC (Adrian) ([pdf](#) <sup>59</sup>)
- Demonstration/Discussion (Antonio, David T) ([pdf](#) <sup>60</sup>) ([movie](#) <sup>61</sup>)
- JRA3: workflows (Bernard) ([pdf](#) <sup>62</sup>)
- JRA4: visualization (Olivier) ([pdf](#) <sup>63</sup>)
- MHD workflows (Christian) ([pdf](#) <sup>64</sup>) ([movie](#) <sup>65</sup>)
- Mixed grid HPC Workflow (Antonio) ([pdf](#) <sup>66</sup>) ([movie](#) <sup>67</sup>) ([movie](#) <sup>68</sup>)
- Exploitation and sustainability - (Par, David) ([pdf](#) <sup>69</sup>)

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last update: 2011-04-01 by konz

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last update: 2011-03-30 by coster

## 4 Private EUFORIA pages

For accessing the [private EUFORIA pages](#) <sup>70</sup>, an EUFORIA password is needed.

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last update: 2011-03-23 by coster

<sup>47</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Agenda.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Agenda.pdf)

<sup>48</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Introduction.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Introduction.pdf)

<sup>49</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Movies/comb\\_psi\\_5\\_42.900x400.mpg](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Movies/comb_psi_5_42.900x400.mpg)

<sup>50</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Movies/plevol\\_5fps.wmv](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Movies/plevol_5fps.wmv)

<sup>51</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/NA2.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/NA2.pdf)

<sup>52</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/NA3.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/NA3.pdf)

<sup>53</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/SA1.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/SA1.pdf)

<sup>54</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/SA2.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/SA2.pdf)

<sup>55</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/SA3.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/SA3.pdf)

<sup>56</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Cloud\\_presentation.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Cloud_presentation.pdf)

<sup>57</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Demos/cloud-tapas-bit1.avi](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Demos/cloud-tapas-bit1.avi)

<sup>58</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/JRA1.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/JRA1.pdf)

<sup>59</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/JRA2.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/JRA2.pdf)

<sup>60</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/BIT1\\_Tskhakaya.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/BIT1_Tskhakaya.pdf)

<sup>61</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Demos/tapas-bit1.avi](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Demos/tapas-bit1.avi)

<sup>62</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/JRA3.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/JRA3.pdf)

<sup>63</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/JRA4.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/JRA4.pdf)

<sup>64</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/jalpha\\_euforia.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/jalpha_euforia.pdf)

<sup>65</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Demos/helena-jalpha-ilsa.avi](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Demos/helena-jalpha-ilsa.avi)

<sup>66</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/VMEC-Visualization.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/VMEC-Visualization.pdf)

<sup>67</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Demos/cobra-vmec.avi](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Demos/cobra-vmec.avi)

<sup>68</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Demos/mixed.avi](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Demos/mixed.avi)

<sup>69</sup>[https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW\\_2010/Presentations/Sustainability.pdf](https://www.efda-itm.eu/ITM/imports/euforia/public/meetings/REVIEW_2010/Presentations/Sustainability.pdf)

<sup>70</sup><https://www.efda-itm.eu/EUFORIA/html/index.html>