Phase-field Solver for Eutectic Transformation

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This is a phase-field solver pertaining to three phases (α , β and liquid) for OpenFOAM based on finite-volume discretization. The solver can be decomposed into multiple domains for parallel runs. To carry out the simulations, the steps mentioned below can be followed.

1 2D lamellar eutectic growth

The first case is conducted by subjecting the melt to a positive moving thermal gradient ahead of the solid-liquid interface in 2D. The imposed temperature field as a function of thermal gradient in the x direction, G and pulling velocity, v is taken as:

$$T(x,t) = T_{initial} + G(x - vt) \tag{1}$$

1.1 Problem specification

The problem is defined as follows:

Solution domain The domain is considered to be two-dimensional in this problem. The rectangular domain consists of three phases with boundaries as shown in Figure 1 (Umate [(2021)]).

Governing equations The basic idea of the phase-field model consists in the description of the evolution of individual phases using the corresponding set of order parameters (the phase-field variables). For each phase,

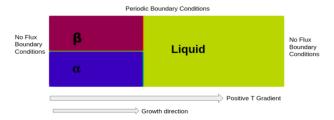


Figure 1: Two-dimensional geometry of the lamellar morphology.

the associated phase-field variable is equal to 1 inside the phase and vanishes to 0 outside the area occupied by the considered phase. The transition of phase fields from 1 to 0 at the phase boundaries is continuous and smooth, i.e.,the phase boundaries are represented by diffuse interfaces with a finite thickness. The three phases, α , β and liquid phase are described by three phase fields ϕ_i , with $i=\alpha$, β , liq, representing the volume fractions. The state of the binary eutectic system is described by the order parameter $\Phi = \{\phi_{\alpha}, \phi_{\beta}, \phi_{liq}\}$, the chemical potential μ , and the temperature T. The constraints on individual order parameters are:

$$\phi_i \in [0,1] \ \forall \ i \sum_i \phi_i = 1 \tag{2}$$

• Phase evolution is determined by the phenomenological minimization of the grand-potential functional (Choudhury and Nestler [(2012)]). The evolution equations for three phases can be written as (Folch and Plapp [(2005)]):

$$\tau \epsilon \frac{\partial \phi_{i}}{\partial t} = -\frac{2}{3} \left[-\epsilon \left(\nabla \cdot \frac{\partial a(\nabla \Phi)}{\partial \nabla \phi_{i}} \right) + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_{i}} + \frac{\partial \Psi(T, \mu, \Phi)}{\partial \phi_{i}} \right]$$

$$+ \frac{1}{3} \left[-\epsilon \left(\nabla \cdot \frac{\partial a(\nabla \Phi)}{\partial \nabla \phi_{j}} \right) + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_{j}} + \frac{\partial \Psi(T, \mu, \Phi)}{\partial \phi_{j}} \right]$$

$$+ \frac{1}{3} \left[-\epsilon \left(\nabla \cdot \frac{\partial a(\nabla \Phi)}{\partial \nabla \phi_{k}} \right) + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_{k}} + \frac{\partial \Psi(T, \mu, \Phi)}{\partial \phi_{k}} \right]$$

$$(3)$$

where i, j and k are all different and $\epsilon \{\alpha, \beta, liq\}$; τ is the relaxation constant which influences the kinetics of the phase transformation at the interfaces.

• The double well potential $w(\Phi)$ can be written as:

$$w(\Phi) = \sum_{i} 9\gamma \phi_i^2 (1 - \phi_i)^2 \tag{4}$$

• The gradient energy density, $a(\nabla \Phi)$ has the form:

$$a(\nabla \Phi) = \sum_{i} \gamma |\nabla \phi_{i}|^{2} \tag{5}$$

where γ controls the interfacial energy of the system and is known as surface energy density.

• The grand potential $\Psi(T, \mu, \phi)$ can be expressed as sum of grand potential of phases present in the system:

$$\Psi(T,\mu,\Phi) = \sum_{i} \Psi_i(T,\mu) h_i(\Phi)$$
 (6)

where $\Psi_i(T,\mu)$ for the three phases are the following:

$$\Psi_{\alpha}(T,\mu) = -A \left(\frac{\mu - B_{\alpha}}{2A}\right)^{2} + D_{\alpha}(T)$$

$$\Psi_{\beta}(T,\mu) = -A \left(\frac{\mu - B_{\beta}}{2A}\right)^{2} + D_{\beta}(T)$$

$$\Psi_{liq}(T,\mu) = -A \left(\frac{\mu}{2A}\right)^{2}$$
(7)

where A, B_i and D_i are derived following the consequence of equilibrium between the different phases described by the common tangent construction with parabolic approximation for free energy. These are given below:

$$B_{\alpha}(T) = 2A_{liq}c_{liq}^{eut} - 2A_{\alpha}c_{\alpha}^{eut} + (T - T^{eut}) \left(\frac{2A_{liq}}{m_{liq-\alpha}} - \frac{2A_{\alpha}}{m_{\alpha-liq}}\right)$$

$$B_{\beta}(T) = 2A_{liq}c_{liq}^{eut} - 2A_{\beta}c_{\beta}^{eut} + (T - T^{eut}) \left(\frac{2A_{liq}}{m_{liq-\beta}} - \frac{2A_{\beta}}{m_{\beta-liq}}\right)$$

$$B_{liq}(T) = 0$$

$$D_{\alpha}(T) = -A_{liq}(c_{liq}^{eut})^{2} + A_{\alpha}(c_{\alpha}^{eut})^{2} + (T - T^{eut}) \left(\frac{-2A_{liq}c_{liq}^{eut}}{m_{liq-\alpha}} + \frac{2A_{\alpha}c_{\alpha}^{eut}}{m_{\alpha-liq}}\right)$$

$$D_{\beta}(T) = -A_{liq}(c_{liq}^{eut})^{2} + A_{\beta}(c_{\beta}^{eut})^{2} + (T - T^{eut}) \left(\frac{-2A_{liq}c_{liq}^{eut}}{m_{liq-\beta}} + \frac{2A_{\beta}c_{\beta}^{eut}}{m_{\beta-liq}}\right)$$

$$D_{liq}(T) = 0$$
(8)

where c_i^{eut} are the α , β and liquid phase compositions at the eutectic temperature, T^{eut} . The liquidus slopes for $\alpha - liq$ phase equilibrium is denoted by $m_{liq-\alpha}$ while the corresponding solidus slope by $m_{\alpha-liq}$ and similar notation is followed for the $\beta - liq$ phase equilibrium.

• In equation (6), $h_i(\Phi)$ is an interpolation function given as:

$$h_i = \frac{{\phi_i}^2}{4} [15(1 - \phi_i)\{1 + \phi_i - (\phi_k - \phi_j)^2\} + \phi_i(9{\phi_i}^2 - 5)]$$
(9)

These interpolation functions make sure that at the interface of phases i and j, the phase field for phase k remains zero.

• The phase-field equations for three phases after incorporating above equations can be given as:

$$\tau \epsilon \frac{\partial \phi_i}{\partial t} = -\frac{2}{3} \left[-2\gamma \epsilon \nabla^2 \phi_i + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_i} + \Psi_i(T, \mu) \frac{\partial h_i(\Phi)}{\partial \phi_i} \right]$$

$$+ \frac{1}{3} \left[-2\gamma \epsilon \nabla^2 \phi_j + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_j} + \Psi_j(T, \mu) \frac{\partial h_j(\Phi)}{\partial \phi_j} \right]$$

$$+ \frac{1}{3} \left[-2\gamma \epsilon \nabla^2 \phi_k + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_k} + \Psi_k(T, \mu) \frac{\partial h_k(\Phi)}{\partial \phi_k} \right]$$

$$(10)$$

• These three equations for the phase fields corresponding to the liquid, α and β phases are solved in a coupled manner along with mass balance equation which takes the form:

$$\left[\sum_{i} \frac{\partial c_{i}}{\partial \mu} h_{i}(\Phi)\right] \frac{\partial \mu}{\partial t} + \sum_{i} c_{i} \left(\sum_{n} \frac{\partial h_{i}}{\partial \phi_{n}} \frac{\partial \phi_{n}}{\partial t}\right)
= \nabla \cdot \left(D\phi_{liq} \frac{\partial c_{liq}(T, \mu)}{\partial \mu} \nabla \mu\right) - \nabla \cdot j_{at}$$
(11)

The slope of c- μ curves is expressed according to the parabolic approximation for free energy in the solver source code:

$$\frac{\partial c_i(T,\mu)}{\partial \mu} = \frac{1}{2A} \tag{12}$$

• In this case diffusivity in solid phase is assumed to be negligible. This then becomes the case of one sided diffusion. For the case of one-sided diffusion, it has been shown in various previous works that there exists a thin-interface defect called solute trapping when simulations are performed with interface thicknesses, orders of magnitude larger than those of a real interface. The methodology proposed to correct this effect is the incorporation of an anti-trapping current j_{at} in the evolution equation of the chemical potential. The anti-trapping term is incorporated as an additional flux of solute from the solid to the liquid in the normal direction to the interface (Karma [(2001)]). To make sure that the anti-trapping current appears in the first-order correction to the chemical potential, the anti-trapping current is formulated into the following form:

$$j_{at} = j_{at}^{\alpha \Longrightarrow liq} \left(-\frac{\nabla \phi_{\alpha}}{|\nabla \phi_{\alpha}|} \cdot \frac{\nabla \phi_{liq}}{|\nabla \phi_{liq}|} \right) + j_{at}^{\beta \Longrightarrow liq} \left(-\frac{\nabla \phi_{\beta}}{|\nabla \phi_{\beta}|} \cdot \frac{\nabla \phi_{liq}}{|\nabla \phi_{liq}|} \right)$$
(13)

where $j_{at}^{i \Longrightarrow liq}$ is:

$$j_{at}^{i \Longrightarrow liq} = -\frac{\epsilon}{2\sqrt{2}} [c_{liq}(\mu) - c_i(\mu)] \frac{\partial \phi_i}{\partial t} \frac{\nabla \phi_i}{|\nabla \phi_i|}$$
(14)

All terms in the above equation are used in the nondimensional form, so ϵ is the nondimensional parameter related to the interface width and t is the nondimensional time.

• As the simulation progresses, the solid-liquid interface will choose an undercooling and will traverse with the temperature gradient with the imposed velocity. Since the simulation of solidification begins from an infinite reservoir of liquid, it becomes necessary to implement shifts in all the fields in the domain to ensure that the far field composition of the liquid remains the same as eutectic composition. This is analogous to having a camera frame at the solid liquid interface which is moving along with it into a virtually infinite liquid in the growth direction. This is implemented simply by 'rigidly convecting' all the fields. This requires adding the flux term $v \cdot \nabla \phi$, where v is the imposed velocity and ϕ is phase field parameter of all phases and also the chemical potential field. Since, v is a constant, all these fields will simply be translated as it is in the entire domain. This shifts are required to be performed in the growth direction, which is chosen to be x direction. So, each equation becomes:

$$\tau \epsilon \frac{\partial \phi_i}{\partial t} - v \frac{\partial \phi_i}{\partial x} = -\frac{2}{3} \left[-2\gamma \epsilon \nabla^2 \phi_i + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_i} + \Psi_i(T, \mu) \frac{\partial h_i(\Phi)}{\partial \phi_i} \right]
+ \frac{1}{3} \left[-2\gamma \epsilon \nabla^2 \phi_j + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_j} + \Psi_j(T, \mu) \frac{\partial h_j(\Phi)}{\partial \phi_j} \right]
+ \frac{1}{3} \left[-2\gamma \epsilon \nabla^2 \phi_k + \frac{1}{\epsilon} \frac{\partial w(\Phi)}{\partial \phi_k} + \Psi_k(T, \mu) \frac{\partial h_k(\Phi)}{\partial \phi_k} \right]$$
(15)

and the chemical diffusion evolution equation becomes:

$$\left[\sum_{i} \frac{\partial c_{i}}{\partial \mu} h_{i}(\Phi)\right] \frac{\partial \mu}{\partial t} - v \frac{\partial c}{\partial x} + \sum_{i} c_{i} \left(\sum_{n} \frac{\partial h_{i}}{\partial \phi_{n}} \frac{\partial \phi_{n}}{\partial t}\right)
= \nabla \cdot \left(D\phi_{liq} \frac{\partial c_{liq}(T, \mu)}{\partial \mu} \nabla \mu\right) - \nabla \cdot j_{at}$$
(16)

Since each of the fields is being moved in the direction opposite to growth direction, the temperature gradient is kept stationary and solid-liquid interface is expected to find its equilibrium undercooling.

• Using the relation $\frac{\partial \Psi(T,\mu,\Phi)}{\partial \mu} = -c$ and equations (6–9), ∇c is evaluated.

Boundary conditions

• Cyclic boundary condition is specified at the top and bottom planes, and zero-flux is specified at the remaining planes.

Initial conditions

- $\phi_i = 1.0$ inside the phase i and 0 inside phases j and k (with $i, j, k \in \{\alpha, \beta, liq\}$) (see Figure 1).
- $\mu = 1.0$ in the entire domain.

Physical properties The nondimensionalized physical properties for equal volume fractions of α and β phases are:

- Slope liquidus of $liq \alpha$ $(m_{liq-\alpha}) =$ Slope solidus of αliq $(m_{\alpha-liq}) = -0.5$
- Slope liquidus of $liq \beta$ $(m_{liq-\beta}) =$ Slope solidus of βliq $(m_{\beta-liq}) = 0.5$
- Eutectic composition of liquid phase $(c_{lig}^{eut}) = 0.5$
- Eutectic composition of α phase $(c_{\alpha}^{eut}) = 0.2$
- Eutectic composition of β phase $(c_{\beta}^{eut}) = 0.8$
- Thermal gradient (G) = 1.7e-5
- Velocity (v) = 0.01
- Diffusivity in liquid (D) = 1
- Eutectic temperature $(T_{eut}) = 1.0$
- Constant value from temperature profile $(T_{initial}) = 0.93$
- Relaxation coefficient $(\tau) = 0.288$
- Interface energy parameter $(\gamma) = 1$
- Interface width parameter $(\epsilon) = 8$

Solver name

• eutectic: An implementation for phase-field method to model eutectic transformation of two solid phases from liquid phase.

Case name

• lamellar2D, located in the \$FOAM_RUN/PhaseFieldSolverEutectic directory.

The problem is solved using *eutectic*, located in the *\$FOAM_RUN/PhaseFieldSolverEutectic* directory. The code-guide for this solver is given in the *\$FOAM_RUN/PhaseFieldSolverEutectic/codeGuide* directory. Before proceeding further, it may be helpful for the user to become familiar with OpenFOAM documentation.

1.2 Pre-processing

To prepare case files and running the case, the user can change to the case directory: cd \$FOAM RUN/PhaseFieldSolverEutectic/lamellar2D

1.2.1 Mesh generation

OpenFOAM solves the case in three dimensions by default but can be instructed to solve in two dimensions. Here, the mesh must be 1 cell layer thick. The domain consists of a rectangle of length in the growth direction (x), 3D/v and in the normal direction (y), 1.6D/v. A domain of size 300 in the growth direction, if resolved in 150 grid points, is said to have a dx of 2. The . Large variations in fields can be expected near the interfaces,

so the mesh will be graded to be smaller in this region. The graded mesh is achieved by merging three blocks with different refinement. The block structure is shown in Figure 2.

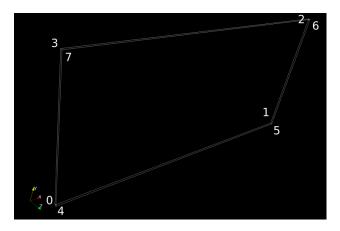


Figure 2: Block structure of the mesh.

The entries in blockMeshDict located in the system directory for this case are as follows:

```
/*----*\
| =======
                     | OpenFOAM: The Open Source CFD Toolbox
1 //
      / F ield
                     | Version: 4.0
          O peration
   \\ /
                      | Web:
                                www.OpenFOAM.org
          A nd
   \\/
          M anipulation |
          ______*/
\*----
FoamFile
{
            2.0;
   version
   format
            ascii;
   class
            dictionary;
   object
            blockMeshDict;
convertToMeters 2;
x_min 0;
x_max0 90;
x_max1 120;
x_max2 150; //3 blocks in direction of growth
y_min 0;
y_max 80;
z_min 0;
z_max 2;
// should all be integers
lx #calc "$x_max0 - $x_min";
ly #calc "$y_max - $y_min";
lz #calc "$z_max - $z_min"; // should all be integers
vertices
(
   ($x_min $y_min $z_min)
   ($x max0 $y min $z min)
   ($x_max0 $y_max $z_min)
```

```
($x_min $y_max $z_min)
    ($x_min $y_min $z_max)
    ($x_max0 $y_min $z_max)
    ($x_max0 $y_max $z_max)
    ($x_min $y_max $z_max)
    ($x_max0 $y_min $z_min)
    ($x_max1 $y_min $z_min)
    ($x_max1 $y_max $z_min)
    ($x_max0 $y_max $z_min)
    ($x_max0 $y_min $z_max)
    ($x_max1 $y_min $z_max)
    ($x_max1 $y_max $z_max)
    (x_max0 \ y_max \ z_max)
    ($x_max1 $y_min $z_min)
    ($x_max2 $y_min $z_min)
    ($x_max2 $y_max $z_min)
    ($x_max1 $y_max $z_min)
    ($x_max1 $y_min $z_max)
    ($x_max2 $y_min $z_max)
    ($x_max2 $y_max $z_max)
    ($x_max1 $y_max $z_max)
);
blocks
   hex (0 1 2 3 4 5 6 7) ($lx $ly 1) simpleGrading (1 1 1)
   hex (8 9 10 11 12 13 14 15) (12 40 1) simpleGrading (1 1 1)
   hex (16 17 18 19 20 21 22 23) (6 20 1) simpleGrading (1 1 1)
// for dx = 0.5: simpleGrading (2 2 2) or convertToMeters = 0.5
);
edges
(
);
//====== FOR ZERO-FLUX BOUNDARY CONDITIONS =======
boundary
(
   floor
   {
         type cyclic;
         neighbourPatch ceiling;
        faces
        (
        (0\ 1\ 5\ 4)
        (8 9 13 12)
        (16 17 21 20)
   }
    ceiling
```

```
type cyclic;
    neighbourPatch floor;
    faces
    (2 3 7 6)
    (10 11 15 14)
    (18 19 23 22)
    );
}
sideSolid
    type wall;
    faces
    (
        (0 3 2 1)
        (8 11 10 9)
        (16 19 18 17)
        (0 \ 4 \ 7 \ 3)
        (4 5 6 7)
        (12 13 14 15)
        (20 21 22 23)
        (17 18 22 21)
    );
}
wall_merge0
{
    type wall;
    faces
        (1 2 6 5)
    );
}
wall_merge1
    type wall;
    faces
        (8 12 15 11)
    );
}
wall_merge2
    type wall;
    faces
        (9 10 14 13)
    );
}
wall_merge3
    type wall;
    faces
    (
        (16 20 23 19)
```

```
);
   }
);
mergePatchPairs
    (wall_merge0 wall_merge1)
    (wall_merge2 wall_merge3)
);
// *******************************//
The mesh is generated after accessing blockMesh entry within FOAM_RUN/PhaseFieldSolverEutectic/lamellar2D/Allrun:
#!/bin/sh
cd \{0\%/*\} || exit 1
                       # Run from this directory
# Source tutorial run functions
. $WM_PROJECT_DIR/bin/tools/RunFunctions
application=`getApplication`
runApplication blockMesh
cp 0/phi_alpha.orig 0/phi_alpha
cp 0/phi_beta.orig 0/phi_beta
cp 0/phi_liq.orig 0/phi_liq
cp 0/T.orig 0/T
cp 0/mu.orig 0/mu
runApplication setFields -dict system/setFieldsDict
runApplication decomposePar
#runApplication `getApplication`
runParallel `getApplication`
#runApplication reconstructPar
```

The generated mesh is shown in Figure 3.

The logs are stored into log.blockMesh.

1.2.2 Boundary and initial conditions

Once the mesh generation is complete, the user can look at this initial conditions set up for this case. The case is set up to start at time t=0 s, so the initial field data is stored in a θ sub-directory of the *freeGrowth* directory. The θ sub-directory contains $phi_alpha.orig$, $phi_beta.orig$, $phi_liq.orig$, and mu.orig, one for each

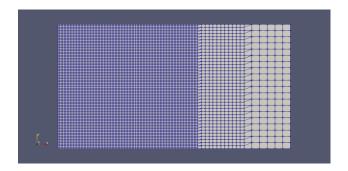


Figure 3: Generated 2D mesh.

of the phase parameter $(\phi_{\alpha}, \phi_{\beta}, \phi_{liq})$ and chemical potential (μ) fields whose initial values and boundary conditions must be set. First, the file $phi_alpha.orig$ can be examined:

```
/*----*\
| =======
| OpenFOAM: The Open Source CFD Toolbox
www.OpenFOAM.org
   \\/
         M anipulation |
FoamFile
{
  version
          2.0;
  format
          ascii;
  class
          volScalarField;
           "0";
  location
  object
           phi_alpha;
dimensions
           [0 0 0 0 0 0 0];
internalField
          uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS =========//
boundaryField
  floor
   {
                cyclic;
  }
  ceiling
   {
                cyclic;
  }
  sideSolid
   {
     type
                zeroGradient;
  }
```

}

For this case, the boundary consists of planes split into patches named: (1) ceiling and floor for cyclic boundary at top and bottom planes; (2) sideSolid patch includes other planes of the 2D case and is given a zeroGradient boundary condition for ϕ_{α} , meaning "the normal gradient of ϕ_{α} is zero." The initial fields are set to uniform zero.

The user can similarly examine $\theta/phi_beta.orig$, $\theta/phi_liq.orig$, and the chemical potential field in the $\theta/mu.orig$ file. The non-dimensionalized internal field is initialised as uniform zero. The boundary fields require the same boundary condition.

```
/*----*\
FoamFile
{
        2.0;
  version
  format
        ascii;
  class
        volScalarField;
  location
        "0";
  object
        phi beta;
}
        [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS ===========//
boundaryField
  floor
  {
            cyclic;
    type
  }
  ceiling
            cyclic;
    type
  sideSolid
            zeroGradient;
    type
  }
}
| Version: 4.x
| Web: www.OpenFOAM.org
```

```
-----*/
FoamFile
{
  version 2.0;
 format ascii;
class volScalarField;
 location "0";
 object phi_liq;
}
dimensions [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS =========//
boundaryField
  floor
       cyclic;
    type
  ceiling
    type
           cyclic;
  sideSolid
   type
         zeroGradient;
}
/*----*\
| \\/ M anipulation |
FoamFile
  version 2.0;
  format
       ascii;
       volScalarField;
  class
  location "0";
  object mu;
dimensions [0 0 0 0 0 0 0];
```

```
internalField uniform 1;
//====== NO-FLUX BOUNDARY CONDITIONS ==========//
boundaryField
{
   floor
                      cyclic;
       type
   }
   ceiling
                      cyclic;
       type
   }
   sideSolid
    {
                      zeroGradient;
       type
   }
}
```

1.2.3 Setting initial field

A non-uniform initial condition is specified for the phase parameter, ϕ_i , where $\phi_i = 1.0$ inside the phase i and 0 inside phases j and k (with $i, j, k \in \{\alpha, \beta, liq\}$). For chemical potential, $\mu = 1.0$ in the entire domain. The solid-liquid interface is set at 1.2D/v from the origin.

This is achieved by running the setFields utility. It requires a setFieldsDict dictionary, located in the system directory, whose entries for this case are shown below:

```
------*\
| =======
| OpenFOAM: The Open Source CFD Toolbox
 //
                    | Version: 4.0
      /
         O peration
  \\ /
         A nd
                    | Web:
                             www.OpenFOAM.org
   \\/
         M anipulation |
\*----*/
FoamFile
{
           2.0;
  version
  format
           ascii;
  class
           dictionary;
  location
           "system";
  object
           setFieldsDict;
}
defaultFieldValues
(
  volScalarFieldValue phi_alpha 0.0
  volScalarFieldValue phi_beta 0.0
  volScalarFieldValue phi_liq 0.0
  volScalarFieldValue T 1.0
  volScalarFieldValue mu 1.0
```

```
);
regions
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (-6 -6 -6) (120 80 100);
// Box can be larger than domain; in general this avoids edge effects
   fieldValues
// NB: no semicolons at the end of the dictionary entries below!
   volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (-6 80 -6) (120 166 100);
// Box can be larger than domain; in general this avoids edge effects
    fieldValues
// NB: no semicolons at the end of the dictionary entries below!
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (120 -6 -6) (306 166 100);
// Box can be larger than domain; in general this avoids edge effects
// NB: no semicolons at the end of the dictionary entries below!
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 1.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
```

The user can execute setFields through $FOAM_RUN/PhaseFieldSolverEutectic/lamellar2D/Allrun$. The logs are stored into log.setFields.

1.2.4 Physical properties

);

The physical properties for the case are specified in *constant/transportProperties* dictionary. The entries of *transportProperties* dictionary are shown below:

```
/*----*\
M anipulation |
    \\/
FoamFile
{
            2.0;
   version
   format
            ascii;
   class dictionary;
location "constant";
   object
            transportProperties;
}
dimx
          dimx [0 1 0 0 0 0 0] 1; //Dimension of position
          dimt [0 0 1 0 0 0 0] 1; //Dimension of time
dimt
          ms_alpha [0 0 0 0 0 0] -0.5; //Slope liq-alpha and alpha-liq
ms alpha
          ms_beta [0 0 0 0 0 0 0] 0.5; //Slope liq-beta and beta-liq
{\tt ms\_beta}
          c_eq_liq [0 0 0 0 0 0 0] 0.5; //Eutectic composition of liquid phase
c_eq_liq
c_eq_alpha c_eq_alpha [0 0 0 0 0 0 0] 0.2; //Eutectic composition of alpha phase
         c_eq_beta [0 0 0 0 0 0 0] 0.8; //Eutectic composition of beta phase
c_eq_beta
          G [0 0 0 0 0 0 0] 5.0e-4; //Thermal gradient
G
          v [0 0 0 0 0 0 0] 0.01; //Velocity
v
          A [0 0 0 0 0 0 0] 1.0;
Α
D
          D [0 0 0 0 0 0 0] 1.0; //Diffusivity in liquid
          T_eut [0 0 0 0 0 0 0] 1.0; //Eutectic temperature
T eut
          initial [0 0 0 0 0 0] 0.89; //Constant value from temperature profile
initial
          tau [0 0 0 0 0 0 0] 0.288; //Relaxation coefficient
          gamma [0 0 0 0 0 0] 1.0; //Interface energy parameter
gamma
epsilon
          epsilon [0 0 0 0 0 0 0] 8.0; //Interface width parameter
// ********************************//
```

The physical properties are read by readTransportProperties.H while running the case.

1.2.5 Time step control

Input data relating to the control of time, reading and writing of the solution data are read from the *controlDict* dictionary located in the *system* directory.

The run is started at time t = 0 to read field data from a directory named θ . Therefore, the startFrom keyword is set to startTime and then the startTime keyword to be 0.

The end time can be considered to be the time taken for steady-state diffusion of each phase, which is found to be 300 for this case. To specify this end time, the stopAt keyword is set to endTime and then the endTime keyword to 300.

Next, the time step must be fixed which is represented by the keyword deltaT. To achieve temporal accuracy and numerical stability while reducing computational effort, deltaT is set to 0.1.

As the simulation progresses, results written at certain intervals of time can later be viewed with a post-processing package. The writeControl keyword can be set to the runTime option, where the time interval for writing is specified under the writeInterval keyword. The writeInterval can be set to 3. OpenFOAM creates a new directory named after the current time, e.g. 200, on each occasion that it writes a set of data containing the results for each field, ϕ_i and μ , into the time directories. For this case, the entries in the *controlDict* are shown below:

```
/*----*\
| =======
                         | OpenFOAM: The Open Source CFD Toolbox
| \\
        / F ield
                        | Version: 4.0
  11
       /
           O peration
   \\ /
           A nd
                         | Web:
                                   www.OpenFOAM.org
    \\/
           M anipulation |
FoamFile
{
   version
              2.0;
   format
              ascii;
   class
              dictionary;
              "system";
   location
   object
              controlDict;
}
application
              eutectic;
startFrom
              startTime; //latestTime
startTime
              0; // the actual time i.e. runtime.value() or no. of iterations*deltaT
stopAt
              endTime;
endTime
              300.0; //actual time = total iterations*deltaT
deltaT
              0.1;
writeControl
              runTime;
writeInterval
              3.0;
purgeWrite
              0;
writeFormat
              ascii;
writePrecision 6:
```

1.2.6 Discretisation schemes

In this case, the term $\nabla \cdot \left(D\phi_{liq} \frac{\partial c_{liq}(T,\mu)}{\partial \mu} \nabla \mu\right)$ in the chemical potential equation includes laplacian(D*phi_liq,mu). The laplacian is solved by fixing laplacianSchemes to Gauss linear corrected. The gradient and divergence are solved by fixing gradSchemes and divSchemes to Gauss linear.

The other discretised terms use commonly employed schemes so that the fvSchemes dictionary entries should therefore be:

```
/*----*\
\\/
      M anipulation |
\*-----/
FoamFile
{
  version 2.0;
  format
        ascii;
        dictionary;
  class
  location "system";
  object
        fvSchemes;
}
ddtSchemes
{
  default
           Euler;
}
gradSchemes
  default
          Gauss linear;
  grad(phi)
           Gauss linear;
}
divSchemes
{
  default
           Gauss linear;
}
laplacianSchemes
```

```
default Gauss linear corrected;
}
\verb|interpolationSchemes||
  default
             linear;
}
snGradSchemes
{
  default
           corrected;
}
// *******************************//
1.2.7 Solver settings
In the fvSolution, the solver tolerance should be set to 10^{-9} for this case. The solver relative tolerance,
denoted by relTol, is set to 0.9.
               -----*\
| Version: 4.0
 www.OpenFOAM.org
  \\/ M anipulation |
FoamFile
  version 2.0;
  format
          ascii;
          dictionary;
  class
           "system";
  location
  object
           fvSolution;
}
solvers
{
  mu
   {
     solver
                        GAMG;
     preconditioner
                        FDIC;
     smoother
                       DICGaussSeidel;
     tolerance
                       1e−9;
     relTol
                        0.9;
  }
  phi_alpha
   {
   solver
                      GAMG;
     preconditioner
                         FDIC;
```

DICGaussSeidel;

smoother

```
tolerance
                            1e-9;
      relTol
                             0.9;
   }
   phi_beta
   {
                         GAMG:
   solver
      preconditioner
                             FDIC;
      smoother
                           DICGaussSeidel;
      tolerance
                            1e-9;
      relTol
                             0.9;
   }
   phi_liq
   {
   solver
                         GAMG;
                             FDIC;
      preconditioner
      smoother
                           DICGaussSeidel;
      tolerance
                            1e-9;
      relTol
                             0.9;
   }
}
SIMPLE
{
   nNonOrthogonalCorrectors 2;
}
Tol_is_defined_here
   Tol 1e-8; //get_tol_from_this
}
```

The fvSolution dictionary contains sub-dictionaries: SIMPLE that contains a control parameter nNonOrthogonalCorrectors set to 2, and Tol_is_defined_here that contains a control parameter Tol set to 1e-8 (which is read by createTol.H). The description of other options can be found in the OpenFOAM userguide.

1.3 Running the application

The first step to run a parallel case is to decompose the domain using the decomposePar utility for assigning to different processors. The dictionary associated with decomposePar, decomposeParDict is located in the system directory. The first entry is numberOfSubdomains corresponding to the number of processors available for the case. The method of decomposition can be simple. The domain is split into subdomains, in the x, y and z directions, the number of subdomains in each direction being given by the vector n. As this geometry is two dimensional, the 3rd direction, z, cannot be split, hence n_z must be 1. The n_x and n_y components of n split the domain in the x and y directions following $n_x n_y = \text{numberOfSubdomains}$. To minimize the communication time between the processors, the number of cell faces adjoining the subdomains are kept to a minimum. For growth direction parallel to x, the domain is split in the y direction to have optimum load balance. The delta keyword is set to 0.001.

For this case, number Of Subdomains = 32 and n = (1, 32, 1). When executing Allrun, decompose Par is run. The logs are stored into log.decompose Par.

```
/*----*\
```

```
F ield
                             | OpenFOAM: The Open Source CFD Toolbox
1 \\
             O peration
                             | Version:
                                         4.0
    \\ /
             A nd
                             | Web:
                                          www.OpenFOAM.org
     \\/
             M anipulation
FoamFile
    version
                2.0;
    format
                ascii;
    class
                dictionary;
                "mesh decomposition control dictionary";
    note
                "system";
    location
                decomposeParDict;
    object
}
numberOfSubdomains 32;
//- Keep owner and neighbour on same processor for faces in zones:
// preserveFaceZones (heater solid1 solid3);
//method
                  scotch:
method
                simple;
simpleCoeffs
{
                 (1 \ 32 \ 1);
    n
    delta
                0.001;
}
```

After compiling the solver (see codeGuide), it is executed in parallel using runParallel within Allrun. The progress of the job is stored into log.eutectic. It includes the current time, initial and final residuals for all fields.

1.4 Post-processing

Once the case has completed running, the decomposed fields and mesh from processor directories can be reconstructed for post-processing. Using reconstructPar, the decomposed mesh with fields can be reassembled. The results reconstructed to time directories can be viewed using ParaView by creating and opening lamellar2D.foam case module:

cd \$FOAM RUN/PhaseFieldSolverEutectic/lamellar2D

touch lamellar2D.foam

paraview lamellar2D.foam

The phase-fields at steady-state for equal volume fractions of α and β phases are shown in Figure 4–6. These are corresponding to the time, when the temperature becomes constant at a particular value despite being different during initialization.

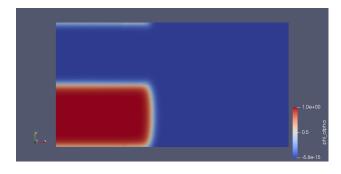


Figure 4: Variation of alpha phase-field at steady-state.

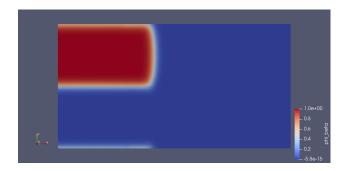


Figure 5: Variation of beta phase-field at steady-state.

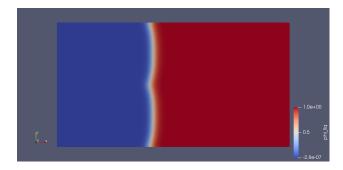


Figure 6: Variation of liquid phase-field at steady-state.

2 3D lamellar eutectic growth

This case corresponds to 3D lamellar morphology with equal volume fractions of α and β phases initialized randomly in the plane perpendicular to the growth direction.

2.1 Problem specification

Solution domain The domain is considered to be three-dimensional in this problem. The cubic domain consists of three phases with random α and β phase distribution perpendicular to the growth direction as shown in Figure 8.

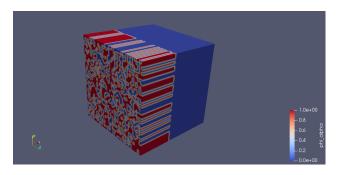


Figure 7: Three-dimensional geometry of the lamellar morphology.

Governing equations The governing equations used are same as in section 1.1.

Boundary conditions Cyclic boundary condition is specified at the top, bottom, front and back planes, and zero-flux is specified at the remaining planes.

Initial conditions The initial conditions are same as in section 1.1.

Physical properties The physical properties are same as in section 1.1.

Solver name eutectic.

Case name lamellar3D, located in the \$FOAM RUN/PhaseFieldSolverEutectic directory.

2.2 Pre-processing

To prepare case files and running the case, the user can change to the case directory: cd \$FOAM_RUN/PhaseFieldSolverEutectic/lamellar3D

2.2.1 Mesh generation

A domain of size $160 \times 160 \times 160 \times 160$ with dx of 2 is considered. Similar to section 1.2.1, the graded mesh is obtained by merging three blocks with different refinement.

The entries in blockMeshDict located in the system directory for this case are as follows:

```
version
               2.0;
   format
               ascii;
               dictionary;
    class
               blockMeshDict;
   object
convertToMeters 2:
x min 0;
x_max0 48;
x_max1 64;
x_max2 80; //3 blocks in direction of growth
y_min 0;
y_max 80;
z_min 0;
z_max 80;
// should all be integers
lx #calc "$x_max0 - $x_min";
ly #calc "$y_max - $y_min";
lz #calc "$z_max - $z_min"; // should all be integers
vertices
    ($x_min $y_min $z_min)
    ($x_max0 $y_min $z_min)
    ($x_max0 $y_max $z_min)
    ($x_min $y_max $z_min)
    ($x_min $y_min $z_max)
    ($x_max0 $y_min $z_max)
    ($x_max0 $y_max $z_max)
    ($x_min $y_max $z_max)
    ($x_max0 $y_min $z_min)
    ($x_max1 $y_min $z_min)
    ($x_max1 $y_max $z_min)
    ($x_max0 $y_max $z_min)
    ($x_max0 $y_min $z_max)
    ($x max1 $y min $z max)
    ($x_max1 $y_max $z_max)
    ($x_max0 $y_max $z_max)
    ($x_max1 $y_min $z_min)
    ($x_max2 $y_min $z_min)
    ($x_max2 $y_max $z_min)
    ($x_max1 $y_max $z_min)
    ($x_max1 $y_min $z_max)
    ($x_max2 $y_min $z_max)
    ($x_max2 $y_max $z_max)
    ($x_max1 $y_max $z_max)
);
blocks
   hex (0 1 2 3 4 5 6 7) ($lx $ly $lz) simpleGrading (1 1 1)
   hex (8 9 10 11 12 13 14 15) (8 40 40) simpleGrading (1 1 1)
```

```
hex (16 17 18 19 20 21 22 23) (4 20 20) simpleGrading (1 1 1)
// for dx = 0.5: simpleGrading (2 2 2) or convertToMeters = 0.5
edges
(
);
//====== FOR ZERO-FLUX BOUNDARY CONDITIONS =======
boundary
(
    floor
         type cyclic;
        neighbourPatch ceiling;
        faces
        (
        (0\ 1\ 5\ 4)
        (8 9 13 12)
        (16 17 21 20)
       );
    }
    ceiling
    {
       type cyclic;
       neighbourPatch floor;
       faces
        (2 3 7 6)
        (10 11 15 14)
        (18 19 23 22)
        );
    }
    front
    {
         type cyclic;
        neighbourPatch back;
        faces
        (4 5 6 7)
        (12 13 14 15)
        (20 21 22 23)
        );
    }
    back
    {
       type cyclic;
       neighbourPatch front;
       faces
        (
        (0 3 2 1)
```

```
(8 11 10 9)
    (16 19 18 17)
    );
}
sideSolid
{
    type wall;
    faces
    (0 4 7 3)
    (17 18 22 21)
    );
}
wall_merge0
    type wall;
    faces
        (1 2 6 5)
    );
}
wall_merge1
{
    type wall;
    faces
        (8 12 15 11)
    );
}
wall_merge2
    type wall;
    faces
        (9 10 14 13)
    );
}
wall_merge3
{
   type wall;
    faces
        (16 20 23 19)
    );
}
```

);

mergePatchPairs

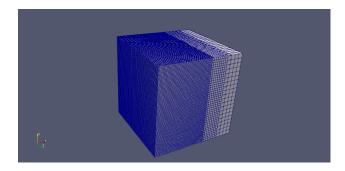


Figure 8: Generated 3D mesh for lamellar morphology case.

2.2.2 Boundary and initial conditions

The generated 3D mesh is shown in Figure 9.

Similar to section 1.2.2, the θ sub-directory contains $phi_alpha.orig$, $phi_beta.orig$, $phi_liq.orig$, and mu.orig. For this case, the boundary consists of planes split into patches named: (1) ceiling, floor, front and back for cyclic boundary at top, bottom, front and back planes, respectively; (2) sideSolid patch includes other planes of the 3D case and is given a zeroGradient boundary condition.

```
/*----*\
| =======
                 | OpenFOAM: The Open Source CFD Toolbox
O peration | Version: 4.x
 \\ /
  \\ /
                  | Web:
                          www.OpenFOAM.org
        A nd
   \\/
        M anipulation |
\*-----
FoamFile
{
          2.0;
  version
  format
          ascii;
  class
          volScalarField;
  location
          "0";
  object
          phi_alpha;
}
dimensions
          [0 0 0 0 0 0 0];
internalField
          uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS ==========//
boundaryField
{
  floor
```

```
type cyclic;
  }
  ceiling
   type
          cyclic;
  }
  front
  {
          cyclic;
    type
  }
  back
  {
           cyclic;
   type
  sideSolid
  {
         zeroGradient;
   type
}
/*----*\
FoamFile
  version 2.0;
  format ascii;
class volScalarField;
  location "0";
  object phi_beta;
}
dimensions [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS ========//
boundaryField
  floor
       cyclic;
    type
  ceiling
         cyclic;
    type
```

```
}
  front
    type cyclic;
  }
  back
        cyclic;
    type
  sideSolid
             zeroGradient;
    type
}
| \\/ M anipulation |
FoamFile
  version 2.0;
  format ascii;
class volScalarField;
location "0";
  object phi_liq;
}
dimensions [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS ========//
{\tt boundaryField}
{
  floor
         cyclic;
    type
  }
  ceiling
    type
              cyclic;
  front
         cyclic;
    type
  back
```

```
type cyclic;
  }
  sideSolid
   type
         zeroGradient;
}
/*----*\
| \\/ M anipulation | \*-----
FoamFile
  version 2.0;
format ascii;
class volScalarField;
 class
 location "0";
 object
dimensions [0 0 0 0 0 0 0];
internalField uniform 1;
//====== NO-FLUX BOUNDARY CONDITIONS =========//
boundaryField
  floor
         cyclic;
   type
  }
  ceiling
   type cyclic;
  }
  front
   type
            cyclic;
  back
         cyclic;
  sideSolid
            zeroGradient;
    type
```

```
}
```

2.2.3 Setting initial field

Similar to section 1.2.3, a non-uniform initial condition is specified for the phase parameters. The solid-liquid interface is set at 64 units in the growth direction from the origin. The α and β phases are distributed randomly in the plane perpendicular to the growth direction (The code randomRegion.cpp can be used for this purpose).

The setFieldsDict dictionary for this case is shown below:

```
/*----*\
| =======
                         | OpenFOAM: The Open Source CFD Toolbox
F ield
                        | Version: 4.0
           O peration
            A nd | Web:
                                     www.OpenFOAM.org
    \\/
            M anipulation |
FoamFile
{
              2.0;
   version
   format.
              ascii;
   class
              dictionary;
   location
              "system";
   object
              setFieldsDict;
}
ymax 160;
zmax 160;
forty_of_ymax #calc "0.025*($ymax)";
forty_of_zmax #calc "0.025*($zmax)";
y_0 #calc "0*($forty_of_ymax)";
y_1 #calc "1*($forty_of_ymax)";
y_2 #calc "2*($forty_of_ymax)";
y_3 #calc "3*($forty_of_ymax)";
y_4 #calc "4*($forty_of_ymax)";
y_5 #calc "5*($forty_of_ymax)";
y_6 #calc "6*($forty_of_ymax)";
y_7 #calc "7*($forty_of_ymax)";
y_8 #calc "8*($forty_of_ymax)";
y_9 #calc "9*($forty_of_ymax)";
y_10 #calc "10*($forty_of_ymax)";
y_11 #calc "11*($forty_of_ymax)";
y_12 #calc "12*($forty_of_ymax)";
y_13 #calc "13*($forty_of_ymax)";
y_14 #calc "14*($forty_of_ymax)";
y_15 #calc "15*($forty_of_ymax)";
y_16 #calc "16*($forty_of_ymax)";
y_17 #calc "17*($forty_of_ymax)";
y_18 #calc "18*($forty_of_ymax)";
```

```
v 19 #calc "19*($forty of ymax)";
y_20 #calc "20*($forty_of_ymax)";
y 21 #calc "21*($forty of ymax)";
y_22 #calc "22*($forty_of_ymax)";
y_23 #calc "23*($forty_of_ymax)";
y 24 #calc "24*($forty of ymax)";
y 25 #calc "25*($forty of ymax)";
y_26 #calc "26*($forty_of_ymax)";
y_27 #calc "27*($forty_of_ymax)";
y_28 #calc "28*($forty_of_ymax)";
y_29 #calc "29*($forty_of_ymax)";
y_30 #calc "30*($forty_of_ymax)";
y_31 #calc "31*($forty_of_ymax)";
y_32 #calc "32*($forty_of_ymax)";
y_33 #calc "33*($forty_of_ymax)";
y_34 #calc "34*($forty_of_ymax)";
y_35 #calc "35*($forty_of_ymax)";
y 36 #calc "36*($forty of ymax)";
y_37 #calc "37*($forty_of_ymax)";
y 38 #calc "38*($forty of ymax)";
y_39 #calc "39*($forty_of_ymax)";
y_40 #calc "40*($forty_of_ymax)";
z 0 #calc "0*($forty of zmax)";
z 1 #calc "1*($forty of zmax)";
z 2 #calc "2*($forty of zmax)";
z_3 #calc "3*($forty_of_zmax)";
z_4 #calc "4*($forty_of_zmax)";
z_5 #calc "5*($forty_of_zmax)";
z_6 #calc "6*($forty_of_zmax)";
z_7 #calc "7*($forty_of_zmax)";
z_8 #calc "8*($forty_of_zmax)";
z_9 #calc "9*($forty_of_zmax)";
z_10 #calc "10*($forty_of_zmax)";
z 11 #calc "11*($forty of zmax)";
z_12 #calc "12*($forty_of_zmax)";
z 13 #calc "13*($forty of zmax)";
z_14 #calc "14*($forty_of_zmax)";
z 15 #calc "15*($forty of zmax)";
z_16 #calc "16*($forty_of_zmax)";
z 17 #calc "17*($forty of zmax)";
z 18 #calc "18*($forty of zmax)";
z 19 #calc "19*($forty of zmax)";
z_20 #calc "20*($forty_of_zmax)";
z_21 #calc "21*($forty_of_zmax)";
z_22 #calc "22*($forty_of_zmax)";
z_23 #calc "23*($forty_of_zmax)";
z_24 #calc "24*($forty_of_zmax)";
z_25 #calc "25*($forty_of_zmax)";
z_26 #calc "26*($forty_of_zmax)";
z_27 #calc "27*($forty_of_zmax)";
z 28 #calc "28*($forty of zmax)";
z_29 #calc "29*($forty_of_zmax)";
z_30 #calc "30*($forty_of_zmax)";
```

```
z_31 #calc "31*($forty_of_zmax)";
z_32 #calc "32*($forty_of_zmax)";
z_33 #calc "33*($forty_of_zmax)";
z_34 #calc "34*($forty_of_zmax)";
z_35 #calc "35*($forty_of_zmax)";
z_36 #calc "36*($forty_of_zmax)";
z_37 #calc "37*($forty_of_zmax)";
z_38 #calc "38*($forty_of_zmax)";
z_39 #calc "39*($forty_of_zmax)";
z_40 #calc "40*($forty_of_zmax)";
defaultFieldValues
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
);
regions
// random alpha and beta phase region starts
   boxToCell { box (-6 $y_0 $z_0) (64 $y_1 $z_1); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_0 $z_1) (64 $y_1 $z_2); fieldValues (
   volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0 ); }
   boxToCell { box (-6 $y_0 $z_2) (64 $y_1 $z_3); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_0 $z_3) (64 $y_1 $z_4); fieldValues (
   volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0 ); }
   boxToCell { box (-6 $y_0 $z_4) (64 $y_1 $z_5); fieldValues (
   volScalarFieldValue phi alpha 1.0
   volScalarFieldValue phi beta 0.0 ); }
   boxToCell { box (-6 $y_0 $z_5) (64 $y_1 $z_6); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_0 $z_6) (64 $y_1 $z_7); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_0 $z_7) (64 $y_1 $z_8); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_0 $z_8) (64 $y_1 $z_9); fieldValues (
    volScalarFieldValue phi_alpha 0.0
    volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_0 $z_9) (64 $y_1 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_10) (64 $y_1 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_11) (64 $y_1 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_12) (64 $y_1 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_13) (64 $y_1 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_14) (64 $y_1 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_15) (64 $y_1 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_16) (64 $y_1 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_17) (64 $y_1 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_18) (64 $y_1 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_19) (64 $y_1 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_20) (64 $y_1 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_21) (64 $y_1 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_22) (64 $y_1 $z_23); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_23) (64 $y_1 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_24) (64 $y_1 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_25) (64 $y_1 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_26) (64 $y_1 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_0 $z_27) (64 $y_1 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_28) (64 $y_1 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_29) (64 $y_1 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_30) (64 $y_1 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_31) (64 $y_1 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_32) (64 $y_1 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_33) (64 $y_1 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_34) (64 $y_1 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_35) (64 $y_1 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_36) (64 $y_1 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_37) (64 $y_1 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_0 $z_38) (64 $y_1 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_0 $z_39) (64 $y_1 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_0) (64 $y_2 $z_1); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_1) (64 $y_2 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_2) (64 $y_2 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_3) (64 $y_2 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 1 $z 4) (64 $y 2 $z 5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_1 $z_5) (64 $y_2 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \$y_1 \$z_6) (64 \$y_2 \$z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_7) (64 $y_2 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_8) (64 $y_2 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_9) (64 $y_2 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_10) (64 $y_2 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_11) (64 $y_2 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_12) (64 $y_2 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_13) (64 $y_2 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_14) (64 $y_2 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_15) (64 $y_2 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_16) (64 $y_2 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_17) (64 $y_2 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_18) (64 $y_2 $z_19); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_19) (64 $y_2 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_20) (64 $y_2 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_21) (64 $y_2 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_22) (64 $y_2 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_1 $z_23) (64 $y_2 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_24) (64 $y_2 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_25) (64 $y_2 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_26) (64 $y_2 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_27) (64 $y_2 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_28) (64 $y_2 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_29) (64 $y_2 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_30) (64 $y_2 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_31) (64 $y_2 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_32) (64 $y_2 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_33) (64 $y_2 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_34) (64 $y_2 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_35) (64 $y_2 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_1 $z_36) (64 $y_2 $z_37); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_37) (64 $y_2 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_38) (64 $y_2 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_1 $z_39) (64 $y_2 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 2 $z 0) (64 $y 3 $z 1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_2 $z_1) (64 $y_3 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_2) (64 $y_3 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_3) (64 $y_3 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_4) (64 $y_3 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_5) (64 $y_3 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_6) (64 $y_3 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_7) (64 $y_3 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_8) (64 $y_3 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_9) (64 $y_3 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_10) (64 $y_3 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_2 \ z_{11}) (64 y_3 \ z_{12}); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_12) (64 $y_3 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_13) (64 $y_3 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_14) (64 $y_3 $z_15); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_15) (64 $y_3 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_16) (64 $y_3 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_17) (64 $y_3 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_18) (64 $y_3 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_2 $z_19) (64 $y_3 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_20) (64 $y_3 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_21) (64 $y_3 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_22) (64 $y_3 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_23) (64 $y_3 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_24) (64 $y_3 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_25) (64 $y_3 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_26) (64 $y_3 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_27) (64 $y_3 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_28) (64 $y_3 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_2 \ z_{29}) (64 y_3 \ z_{30}); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_30) (64 $y_3 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_31) (64 $y_3 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_32) (64 $y_3 $z_33); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_33) (64 $y_3 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_34) (64 $y_3 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_35) (64 $y_3 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_36) (64 $y_3 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_2 $z_37) (64 $y_3 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_2 $z_38) (64 $y_3 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_2 $z_39) (64 $y_3 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_0) (64 $y_4 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_1) (64 $y_4 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_2) (64 $y_4 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_3) (64 $y_4 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_4) (64 $y_4 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_5) (64 $y_4 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 \$y_3 \$z_6) (64 \$y_4 \$z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_7) (64 $y_4 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_8) (64 $y_4 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_9) (64 $y_4 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_10) (64 $y_4 $z_11); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_11) (64 $y_4 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_12) (64 $y_4 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_13) (64 $y_4 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_14) (64 $y_4 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_3 $z_15) (64 $y_4 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_3 z_{16}) (64 y_4 z_{17}); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_17) (64 $y_4 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_18) (64 $y_4 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_19) (64 $y_4 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_20) (64 $y_4 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_21) (64 $y_4 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_22) (64 $y_4 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_23) (64 $y_4 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_24) (64 $y_4 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_3 z_25) (64 y_4 z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_26) (64 $y_4 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_27) (64 $y_4 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_28) (64 $y_4 $z_29); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_29) (64 $y_4 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_30) (64 $y_4 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_31) (64 $y_4 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_32) (64 $y_4 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_3 $z_33) (64 $y_4 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_34) (64 $y_4 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_3 $z_35) (64 $y_4 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_36) (64 $y_4 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_37) (64 $y_4 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_38) (64 $y_4 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_3 $z_39) (64 $y_4 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_0) (64 $y_5 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_1) (64 $y_5 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_2) (64 $y_5 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_3) (64 $y_5 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 \$y_4 \$z_4) (64 \$y_5 \$z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 \$y_4 \$z_5) (64 \$y_5 \$z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_6) (64 $y_5 $z_7); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_7) (64 $y_5 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_8) (64 $y_5 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_9) (64 $y_5 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_10) (64 $y_5 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_4 $z_11) (64 $y_5 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_12) (64 $y_5 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_13) (64 $y_5 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_14) (64 $y_5 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_15) (64 $y_5 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_16) (64 $y_5 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_17) (64 $y_5 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_18) (64 $y_5 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_19) (64 $y_5 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_20) (64 $y_5 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_21) (64 $y_5 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_22) (64 $y_5 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_23) (64 $y_5 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_24) (64 $y_5 $z_25); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_25) (64 $y_5 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_26) (64 $y_5 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_27) (64 $y_5 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_28) (64 $y_5 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_4 $z_29) (64 $y_5 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_30) (64 $y_5 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_31) (64 $y_5 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_32) (64 $y_5 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_33) (64 $y_5 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_34) (64 $y_5 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_35) (64 $y_5 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_36) (64 $y_5 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_37) (64 $y_5 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_4 $z_38) (64 $y_5 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_4 $z_39) (64 $y_5 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_0) (64 $y_6 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_1) (64 $y_6 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_2) (64 $y_6 $z_3); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_3) (64 $y_6 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_4) (64 $y_6 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_5) (64 $y_6 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_6) (64 $y_6 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 \$y_5 \$z_7) (64 \$y_6 \$z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_8) (64 $y_6 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_9) (64 $y_6 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_10) (64 $y_6 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_11) (64 $y_6 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_12) (64 $y_6 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_13) (64 $y_6 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_14) (64 $y_6 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_15) (64 $y_6 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_16) (64 $y_6 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_17) (64 $y_6 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_18) (64 $y_6 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_19) (64 $y_6 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_20) (64 $y_6 $z_21); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_21) (64 $y_6 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_22) (64 $y_6 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_23) (64 $y_6 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_24) (64 $y_6 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_5 $z_25) (64 $y_6 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_26) (64 $y_6 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_27) (64 $y_6 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_28) (64 $y_6 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_29) (64 $y_6 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_30) (64 $y_6 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_31) (64 $y_6 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_32) (64 $y_6 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_33) (64 $y_6 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_34) (64 $y_6 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_35) (64 $y_6 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_5 $z_36) (64 $y_6 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_37) (64 $y_6 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_38) (64 $y_6 $z_39); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_5 $z_39) (64 $y_6 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_0) (64 $y_7 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_1) (64 $y_7 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_2) (64 $y_7 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 \$y_6 \$z_3) (64 \$y_7 \$z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \$y_6 \$z_4) (64 \$y_7 \$z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_5) (64 $y_7 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_6) (64 $y_7 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_7) (64 $y_7 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_8) (64 $y_7 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_9) (64 $y_7 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_10) (64 $y_7 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_11) (64 $y_7 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_12) (64 $y_7 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_13) (64 $y_7 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 \ y_6 \ z_14) \ (64 \ y_7 \ z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_15) (64 $y_7 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_16) (64 $y_7 $z_17); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_17) (64 $y_7 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_18) (64 $y_7 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_19) (64 $y_7 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_20) (64 $y_7 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_6 $z_21) (64 $y_7 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_22) (64 $y_7 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_23) (64 $y_7 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_24) (64 $y_7 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_25) (64 $y_7 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_26) (64 $y_7 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_27) (64 $y_7 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_28) (64 $y_7 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_29) (64 $y_7 $z_30); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_30) (64 $y_7 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_31) (64 $y_7 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_6 z_32) (64 y_7 z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_33) (64 $y_7 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_34) (64 $y_7 $z_35); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_35) (64 $y_7 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_6 $z_36) (64 $y_7 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_37) (64 $y_7 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_6 $z_38) (64 $y_7 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_6 $z_39) (64 $y_7 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_0) (64 $y_8 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_1) (64 $y_8 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_2) (64 $y_8 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_3) (64 $y_8 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_4) (64 $y_8 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_5) (64 $y_8 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_6) (64 $y_8 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_7) (64 $y_8 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_8) (64 $y_8 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_9) (64 $y_8 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_10) (64 $y_8 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_11) (64 $y_8 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_12) (64 $y_8 $z_13); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_13) (64 $y_8 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_14) (64 $y_8 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_15) (64 $y_8 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_16) (64 $y_8 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_7 $z_17) (64 $y_8 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_18) (64 $y_8 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_19) (64 $y_8 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_20) (64 $y_8 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_21) (64 $y_8 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_22) (64 $y_8 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_23) (64 $y_8 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_24) (64 $y_8 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_25) (64 $y_8 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_26) (64 $y_8 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_27) (64 $y_8 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_28) (64 $y_8 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_29) (64 $y_8 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_30) (64 $y_8 $z_31); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_31) (64 $y_8 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_32) (64 $y_8 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_33) (64 $y_8 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_34) (64 $y_8 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_7 $z_35) (64 $y_8 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_36) (64 $y_8 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_37) (64 $y_8 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_7 $z_38) (64 $y_8 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_7 $z_39) (64 $y_8 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_0) (64 $y_9 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_1) (64 $y_9 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_2) (64 $y_9 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_3) (64 $y_9 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_4) (64 $y_9 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 \ y_8 \ z_5) \ (64 \ y_9 \ z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_6) (64 $y_9 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_7) (64 $y_9 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_8) (64 $y_9 $z_9); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_9) (64 $y_9 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_10) (64 $y_9 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_11) (64 $y_9 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_12) (64 $y_9 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_8 $z_13) (64 $y_9 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_14) (64 $y_9 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_15) (64 $y_9 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_16) (64 $y_9 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_17) (64 $y_9 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_18) (64 $y_9 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_19) (64 $y_9 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_20) (64 $y_9 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_21) (64 $y_9 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_22) (64 $y_9 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_23) (64 $y_9 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_24) (64 $y_9 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_25) (64 $y_9 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_26) (64 $y_9 $z_27); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_27) (64 $y_9 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_28) (64 $y_9 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_29) (64 $y_9 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_30) (64 $y_9 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_8 $z_31) (64 $y_9 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_32) (64 $y_9 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_33) (64 $y_9 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_34) (64 $y_9 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_35) (64 $y_9 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_36) (64 $y_9 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_37) (64 $y_9 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_8 $z_38) (64 $y_9 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_8 $z_39) (64 $y_9 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_0) (64 $y_10 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_1) (64 $y_10 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_2) (64 $y_10 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_3) (64 $y_10 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_4) (64 $y_10 $z_5); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_5) (64 $y_10 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_6) (64 $y_10 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_7) (64 $y_10 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_8) (64 $y_10 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_9 $z_9) (64 $y_10 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_10) (64 $y_10 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_11) (64 $y_10 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_12) (64 $y_10 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_13) (64 $y_10 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_14) (64 $y_10 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_15) (64 $y_10 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_16) (64 $y_10 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_17) (64 $y_10 $z_18); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_18) (64 $y_10 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_19) (64 $y_10 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_20) (64 $y_10 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_21) (64 $y_10 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_22) (64 $y_10 $z_23); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_23) (64 $y_10 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_24) (64 $y_10 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_25) (64 $y_10 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_26) (64 $y_10 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_9 $z_27) (64 $y_10 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_28) (64 $y_10 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_29) (64 $y_10 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_30) (64 $y_10 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_31) (64 $y_10 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_32) (64 $y_10 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_33) (64 $y_10 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_9 $z_34) (64 $y_10 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_35) (64 $y_10 $z_36); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_36) (64 $y_10 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_37) (64 $y_10 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_38) (64 $y_10 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_9 $z_39) (64 $y_10 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_0) (64 $y_11 $z_1); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_1) (64 $y_11 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_2) (64 $y_11 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_3) (64 $y_11 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 10 $z 4) (64 $y 11 $z 5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_10 $z_5) (64 $y_11 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_6) (64 $y_11 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_7) (64 $y_11 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_8) (64 $y_11 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_9) (64 $y_11 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_10) (64 $y_11 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_11) (64 $y_11 $z_12); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_12) (64 $y_11 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_13) (64 $y_11 $z_14); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_14) (64 $y_11 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_15) (64 $y_11 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_16) (64 $y_11 $z_17); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_17) (64 $y_11 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_18) (64 $y_11 $z_19); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_19) (64 $y_11 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_20) (64 $y_11 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_21) (64 $y_11 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 10 $z 22) (64 $y 11 $z 23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_10 $z_23) (64 $y_11 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_10 z_24) (64 y_11 z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_25) (64 $y_11 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_26) (64 $y_11 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_27) (64 $y_11 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_28) (64 $y_11 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_29) (64 $y_11 $z_30); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_30) (64 $y_11 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_31) (64 $y_11 $z_32); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_32) (64 $y_11 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_33) (64 $y_11 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_34) (64 $y_11 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_35) (64 $y_11 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_36) (64 $y_11 $z_37); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_37) (64 $y_11 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_10 $z_38) (64 $y_11 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_10 $z_39) (64 $y_11 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_0) (64 $y_12 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
```

```
boxToCell { box (-6 $y_11 $z_1) (64 $y_12 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_2) (64 $y_12 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_3) (64 $y_12 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_4) (64 $y_12 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_5) (64 $y_12 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_6) (64 $y_12 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_7) (64 $y_12 $z_8); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_8) (64 $y_12 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_9) (64 $y_12 $z_10); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_10) (64 $y_12 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_11) (64 $y_12 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_12) (64 $y_12 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_13) (64 $y_12 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_14) (64 $y_12 $z_15); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_15) (64 $y_12 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_16) (64 $y_12 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_17) (64 $y_12 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_18) (64 $y_12 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_11 $z_19) (64 $y_12 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_11 z_20) (64 y_12 z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_21) (64 $y_12 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_22) (64 $y_12 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_23) (64 $y_12 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_24) (64 $y_12 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_25) (64 $y_12 $z_26); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_26) (64 $y_12 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_27) (64 $y_12 $z_28); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_28) (64 $y_12 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_29) (64 $y_12 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_30) (64 $y_12 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_31) (64 $y_12 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_32) (64 $y_12 $z_33); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_33) (64 $y_12 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_34) (64 $y_12 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_11 $z_35) (64 $y_12 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_36) (64 $y_12 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_11 $z_37) (64 $y_12 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_11 z_38) (64 y_12 z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_11 $z_39) (64 $y_12 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_0) (64 $y_13 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_1) (64 $y_13 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_2) (64 $y_13 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_3) (64 $y_13 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_4) (64 $y_13 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_5) (64 $y_13 $z_6); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_6) (64 $y_13 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_7) (64 $y_13 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_8) (64 $y_13 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_9) (64 $y_13 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_10) (64 $y_13 $z_11); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_11) (64 $y_13 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_12) (64 $y_13 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_13) (64 $y_13 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_14) (64 $y_13 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_12 $z_15) (64 $y_13 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_12 z_16) (64 y_13 z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_17) (64 $y_13 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_18) (64 $y_13 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_19) (64 $y_13 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_20) (64 $y_13 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_21) (64 $y_13 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_22) (64 $y_13 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_23) (64 $y_13 $z_24); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_24) (64 $y_13 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_25) (64 $y_13 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_26) (64 $y_13 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_27) (64 $y_13 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_28) (64 $y_13 $z_29); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_29) (64 $y_13 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_30) (64 $y_13 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_31) (64 $y_13 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_32) (64 $y_13 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_12 $z_33) (64 $y_13 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_12 z_34) (64 y_13 z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_12 $z_35) (64 $y_13 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_36) (64 $y_13 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_37) (64 $y_13 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_38) (64 $y_13 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_12 $z_39) (64 $y_13 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_0) (64 $y_14 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_1) (64 $y_14 $z_2); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_2) (64 $y_14 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_3) (64 $y_14 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_4) (64 $y_14 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_5) (64 $y_14 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_6) (64 $y_14 $z_7); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_7) (64 $y_14 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_8) (64 $y_14 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_9) (64 $y_14 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_10) (64 $y_14 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_13 $z_11) (64 $y_14 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_13 z_12) (64 y_14 z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_13) (64 $y_14 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_14) (64 $y_14 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_15) (64 $y_14 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_16) (64 $y_14 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_17) (64 $y_14 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_18) (64 $y_14 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_19) (64 $y_14 $z_20); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_20) (64 $y_14 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_21) (64 $y_14 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_22) (64 $y_14 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_23) (64 $y_14 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_24) (64 $y_14 $z_25); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_25) (64 $y_14 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_26) (64 $y_14 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_27) (64 $y_14 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 13 $z 28) (64 $y 14 $z 29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_13 $z_29) (64 $y_14 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_13 z_30) (64 y_14 z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_31) (64 $y_14 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_32) (64 $y_14 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_33) (64 $y_14 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_34) (64 $y_14 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_35) (64 $y_14 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_36) (64 $y_14 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_37) (64 $y_14 $z_38); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_13 $z_38) (64 $y_14 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_13 $z_39) (64 $y_14 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_0) (64 $y_15 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_1) (64 $y_15 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_2) (64 $y_15 $z_3); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_3) (64 $y_15 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_4) (64 $y_15 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_5) (64 $y_15 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 14 $z 6) (64 $y 15 $z 7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_14 $z_7) (64 $y_15 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_8) (64 $y_15 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_9) (64 $y_15 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_10) (64 $y_15 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_11) (64 $y_15 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_12) (64 $y_15 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_13) (64 $y_15 $z_14); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_14) (64 $y_15 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_15) (64 $y_15 $z_16); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_16) (64 $y_15 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_17) (64 $y_15 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_18) (64 $y_15 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_19) (64 $y_15 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_20) (64 $y_15 $z_21); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_21) (64 $y_15 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_22) (64 $y_15 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_23) (64 $y_15 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 14 $z 24) (64 $y 15 $z 25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_14 $z_25) (64 $y_15 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_14 z_26) (64 y_15 z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_27) (64 $y_15 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_28) (64 $y_15 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_29) (64 $y_15 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_30) (64 $y_15 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_31) (64 $y_15 $z_32); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_32) (64 $y_15 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_33) (64 $y_15 $z_34); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_34) (64 $y_15 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_35) (64 $y_15 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_36) (64 $y_15 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_14 $z_37) (64 $y_15 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_38) (64 $y_15 $z_39); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_14 $z_39) (64 $y_15 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_0) (64 $y_16 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_1) (64 $y_16 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 15 $z 2) (64 $y 16 $z 3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_15 $z_3) (64 $y_16 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_4) (64 $y_16 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_5) (64 $y_16 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_6) (64 $y_16 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_7) (64 $y_16 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_8) (64 $y_16 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_9) (64 $y_16 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_10) (64 $y_16 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_11) (64 $y_16 $z_12); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_12) (64 $y_16 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_13) (64 $y_16 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_14) (64 $y_16 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_15) (64 $y_16 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_16) (64 $y_16 $z_17); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_17) (64 $y_16 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_18) (64 $y_16 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_19) (64 $y_16 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_20) (64 $y_16 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_15 $z_21) (64 $y_16 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_15 z_22) (64 y_16 z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_23) (64 $y_16 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_24) (64 $y_16 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_25) (64 $y_16 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_26) (64 $y_16 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_27) (64 $y_16 $z_28); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_28) (64 $y_16 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_29) (64 $y_16 $z_30); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_30) (64 $y_16 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_31) (64 $y_16 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_32) (64 $y_16 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_33) (64 $y_16 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_34) (64 $y_16 $z_35); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_35) (64 $y_16 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_36) (64 $y_16 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_15 $z_37) (64 $y_16 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_15 $z_38) (64 $y_16 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_15 $z_39) (64 $y_16 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 \ \$y_16 \ \$z_0) \ (64 \ \$y_17 \ \$z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_1) (64 $y_17 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_2) (64 $y_17 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_3) (64 $y_17 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_4) (64 $y_17 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_5) (64 $y_17 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_6) (64 $y_17 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_7) (64 $y_17 $z_8); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_8) (64 $y_17 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_9) (64 $y_17 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_10) (64 $y_17 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_11) (64 $y_17 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_12) (64 $y_17 $z_13); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_13) (64 $y_17 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_14) (64 $y_17 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_15) (64 $y_17 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_16) (64 $y_17 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_16 $z_17) (64 $y_17 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_16 z_18) (64 y_17 z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_19) (64 $y_17 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_20) (64 $y_17 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_21) (64 $y_17 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_22) (64 $y_17 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_23) (64 $y_17 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_24) (64 $y_17 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_25) (64 $y_17 $z_26); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_26) (64 $y_17 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_27) (64 $y_17 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_28) (64 $y_17 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_29) (64 $y_17 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_30) (64 $y_17 $z_31); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_31) (64 $y_17 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_32) (64 $y_17 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_33) (64 $y_17 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_34) (64 $y_17 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_16 $z_35) (64 $y_17 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_16 z_36) (64 y_17 z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_37) (64 $y_17 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_16 $z_38) (64 $y_17 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_16 $z_39) (64 $y_17 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_0) (64 $y_18 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_1) (64 $y_18 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_2) (64 $y_18 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_3) (64 $y_18 $z_4); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_4) (64 $y_18 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_5) (64 $y_18 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_6) (64 $y_18 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_7) (64 $y_18 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_8) (64 $y_18 $z_9); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_9) (64 $y_18 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_10) (64 $y_18 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_11) (64 $y_18 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_12) (64 $y_18 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_17 $z_13) (64 $y_18 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_17 z_14) (64 y_18 z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_15) (64 $y_18 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_16) (64 $y_18 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_17) (64 $y_18 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_18) (64 $y_18 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_19) (64 $y_18 $z_20); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_20) (64 $y_18 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_21) (64 $y_18 $z_22); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_22) (64 $y_18 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_23) (64 $y_18 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_24) (64 $y_18 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_25) (64 $y_18 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_26) (64 $y_18 $z_27); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_27) (64 $y_18 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_28) (64 $y_18 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_29) (64 $y_18 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_30) (64 $y_18 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_17 $z_31) (64 $y_18 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_17 z_32) (64 y_18 z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_33) (64 $y_18 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_34) (64 $y_18 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_35) (64 $y_18 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_36) (64 $y_18 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_37) (64 $y_18 $z_38); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_17 $z_38) (64 $y_18 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_17 $z_39) (64 $y_18 $z_40); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_0) (64 $y_19 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_1) (64 $y_19 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_2) (64 $y_19 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_3) (64 $y_19 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_4) (64 $y_19 $z_5); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_5) (64 $y_19 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_6) (64 $y_19 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_7) (64 $y_19 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_8) (64 $y_19 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_18 $z_9) (64 $y_19 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_10) (64 $y_19 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_11) (64 $y_19 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_12) (64 $y_19 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_13) (64 $y_19 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_14) (64 $y_19 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_15) (64 $y_19 $z_16); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_16) (64 $y_19 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_17) (64 $y_19 $z_18); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_18) (64 $y_19 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_19) (64 $y_19 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_20) (64 $y_19 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_21) (64 $y_19 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_22) (64 $y_19 $z_23); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_23) (64 $y_19 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_24) (64 $y_19 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_25) (64 $y_19 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 18 $z 26) (64 $y 19 $z 27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
```

```
boxToCell { box (-6 $y_18 $z_27) (64 $y_19 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_18 z_28) (64 y_19 z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_29) (64 $y_19 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_30) (64 $y_19 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_31) (64 $y_19 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_32) (64 $y_19 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_33) (64 $y_19 $z_34); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_34) (64 $y_19 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_35) (64 $y_19 $z_36); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_18 $z_36) (64 $y_19 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_37) (64 $y_19 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_38) (64 $y_19 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_18 $z_39) (64 $y_19 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_0) (64 $y_20 $z_1); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_1) (64 $y_20 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_2) (64 $y_20 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_3) (64 $y_20 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 19 $z 4) (64 $y 20 $z 5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_19 $z_5) (64 $y_20 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \$y_19 \$z_6) (64 \$y_20 \$z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_7) (64 $y_20 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_8) (64 $y_20 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_9) (64 $y_20 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_10) (64 $y_20 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_11) (64 $y_20 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_12) (64 $y_20 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_13) (64 $y_20 $z_14); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_14) (64 $y_20 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_15) (64 $y_20 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_16) (64 $y_20 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_17) (64 $y_20 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_18) (64 $y_20 $z_19); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_19) (64 $y_20 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_20) (64 $y_20 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_21) (64 $y_20 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y 19 $z 22) (64 $y 20 $z 23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_19 $z_23) (64 $y_20 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_19 z_24) (64 y_20 z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_25) (64 $y_20 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_26) (64 $y_20 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_27) (64 $y_20 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_28) (64 $y_20 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_29) (64 $y_20 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_30) (64 $y_20 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_31) (64 $y_20 $z_32); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_32) (64 $y_20 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_33) (64 $y_20 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_34) (64 $y_20 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_35) (64 $y_20 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_36) (64 $y_20 $z_37); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_19 $z_37) (64 $y_20 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_38) (64 $y_20 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_19 $z_39) (64 $y_20 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 20 $z 0) (64 $y 21 $z 1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
```

```
boxToCell { box (-6 $y_20 $z_1) (64 $y_21 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_2) (64 $y_21 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_3) (64 $y_21 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_4) (64 $y_21 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_5) (64 $y_21 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_6) (64 $y_21 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_7) (64 $y_21 $z_8); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_8) (64 $y_21 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_9) (64 $y_21 $z_10); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_10) (64 $y_21 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_11) (64 $y_21 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_12) (64 $y_21 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_13) (64 $y_21 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_14) (64 $y_21 $z_15); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_15) (64 $y_21 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_16) (64 $y_21 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_17) (64 $y_21 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_18) (64 $y_21 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_20 $z_19) (64 $y_21 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_20 z_20) (64 y_21 z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_21) (64 $y_21 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_22) (64 $y_21 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_23) (64 $y_21 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_24) (64 $y_21 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_25) (64 $y_21 $z_26); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_26) (64 $y_21 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_27) (64 $y_21 $z_28); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_28) (64 $y_21 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_29) (64 $y_21 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_30) (64 $y_21 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_31) (64 $y_21 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_32) (64 $y_21 $z_33); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_33) (64 $y_21 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_34) (64 $y_21 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_35) (64 $y_21 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_20 $z_36) (64 $y_21 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
```

```
boxToCell { box (-6 $y_20 $z_37) (64 $y_21 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_20 z_38) (64 y_21 z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_20 $z_39) (64 $y_21 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_0) (64 $y_22 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_1) (64 $y_22 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_2) (64 $y_22 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_3) (64 $y_22 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_4) (64 $y_22 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_5) (64 $y_22 $z_6); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_6) (64 $y_22 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_21 z_7) (64 y_22 z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_8) (64 $y_22 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_9) (64 $y_22 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_10) (64 $y_22 $z_11); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_11) (64 $y_22 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_12) (64 $y_22 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_13) (64 $y_22 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_14) (64 $y_22 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_21 $z_15) (64 $y_22 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_21 z_16) (64 y_22 z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_17) (64 $y_22 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_18) (64 $y_22 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_19) (64 $y_22 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_20) (64 $y_22 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_21) (64 $y_22 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_22) (64 $y_22 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_23) (64 $y_22 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_24) (64 $y_22 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_21 z_25) (64 y_22 z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_26) (64 $y_22 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_27) (64 $y_22 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_28) (64 $y_22 $z_29); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_29) (64 $y_22 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_30) (64 $y_22 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_31) (64 $y_22 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_32) (64 $y_22 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_21 $z_33) (64 $y_22 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_21 z_34) (64 y_22 z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_35) (64 $y_22 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_36) (64 $y_22 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_21 $z_37) (64 $y_22 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_38) (64 $y_22 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_21 $z_39) (64 $y_22 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_0) (64 $y_23 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_1) (64 $y_23 $z_2); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_2) (64 $y_23 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_22 z_3) (64 y_23 z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_4) (64 $y_23 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_5) (64 $y_23 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_6) (64 $y_23 $z_7); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_7) (64 $y_23 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_8) (64 $y_23 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_9) (64 $y_23 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_10) (64 $y_23 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_22 $z_11) (64 $y_23 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_22 z_12) (64 y_23 z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_13) (64 $y_23 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_14) (64 $y_23 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_15) (64 $y_23 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_16) (64 $y_23 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_17) (64 $y_23 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_18) (64 $y_23 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_19) (64 $y_23 $z_20); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_20) (64 $y_23 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_21) (64 $y_23 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_22) (64 $y_23 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_23) (64 $y_23 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_24) (64 $y_23 $z_25); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_25) (64 $y_23 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_26) (64 $y_23 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_27) (64 $y_23 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_28) (64 $y_23 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_22 $z_29) (64 $y_23 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_22 z_30) (64 y_23 z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_31) (64 $y_23 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_32) (64 $y_23 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_33) (64 $y_23 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_34) (64 $y_23 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_35) (64 $y_23 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_36) (64 $y_23 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_22 $z_37) (64 $y_23 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_22 $z_38) (64 $y_23 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_22 z_39) (64 y_23 z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_0) (64 $y_24 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_1) (64 $y_24 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_2) (64 $y_24 $z_3); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_3) (64 $y_24 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_4) (64 $y_24 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_5) (64 $y_24 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_6) (64 $y_24 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_23 $z_7) (64 $y_24 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 \ y_23 \ z_8) \ (64 \ y_24 \ z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_9) (64 $y_24 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_10) (64 $y_24 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_11) (64 $y_24 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_12) (64 $y_24 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_13) (64 $y_24 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_14) (64 $y_24 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_15) (64 $y_24 $z_16); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_16) (64 $y_24 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_23 z_17) (64 y_24 z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_18) (64 $y_24 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_19) (64 $y_24 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_20) (64 $y_24 $z_21); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_21) (64 $y_24 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_22) (64 $y_24 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_23) (64 $y_24 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_24) (64 $y_24 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_23 $z_25) (64 $y_24 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_23 z_26) (64 y_24 z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_27) (64 $y_24 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_28) (64 $y_24 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_29) (64 $y_24 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_30) (64 $y_24 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_31) (64 $y_24 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_32) (64 $y_24 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_33) (64 $y_24 $z_34); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_34) (64 $y_24 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_23 z_35) (64 y_24 z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_36) (64 $y_24 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_37) (64 $y_24 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_23 $z_38) (64 $y_24 $z_39); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_23 $z_39) (64 $y_24 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_0) (64 $y_25 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_1) (64 $y_25 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_2) (64 $y_25 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_24 $z_3) (64 $y_25 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_4) (64 $y_25 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_5) (64 $y_25 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_6) (64 $y_25 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_7) (64 $y_25 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_8) (64 $y_25 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_9) (64 $y_25 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_10) (64 $y_25 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_11) (64 $y_25 $z_12); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_12) (64 $y_25 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_13) (64 $y_25 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_14) (64 $y_25 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_15) (64 $y_25 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_16) (64 $y_25 $z_17); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_17) (64 $y_25 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_18) (64 $y_25 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_19) (64 $y_25 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_20) (64 $y_25 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_24 $z_21) (64 $y_25 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_24 z_22) (64 y_25 z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_23) (64 $y_25 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_24) (64 $y_25 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_25) (64 $y_25 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_26) (64 $y_25 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_27) (64 $y_25 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_28) (64 $y_25 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_29) (64 $y_25 $z_30); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_30) (64 $y_25 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_31) (64 $y_25 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_24 $z_32) (64 $y_25 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_33) (64 $y_25 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_34) (64 $y_25 $z_35); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_35) (64 $y_25 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_36) (64 $y_25 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_37) (64 $y_25 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_24 $z_38) (64 $y_25 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_24 $z_39) (64 $y_25 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \ y_25 \ z_0) \ (64 \ y_26 \ z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_1) (64 $y_26 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_2) (64 $y_26 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_3) (64 $y_26 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_4) (64 $y_26 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_5) (64 $y_26 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_6) (64 $y_26 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_7) (64 $y_26 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_8) (64 $y_26 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_25 z_9) (64 y_26 z_{10}); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_10) (64 $y_26 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_11) (64 $y_26 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_12) (64 $y_26 $z_13); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_13) (64 $y_26 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_14) (64 $y_26 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_15) (64 $y_26 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_16) (64 $y_26 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_25 $z_17) (64 $y_26 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_25 z_18) (64 y_26 z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_19) (64 $y_26 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_20) (64 $y_26 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_21) (64 $y_26 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_22) (64 $y_26 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_23) (64 $y_26 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_24) (64 $y_26 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_25) (64 $y_26 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_26) (64 $y_26 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_27) (64 $y_26 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_28) (64 $y_26 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_29) (64 $y_26 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_30) (64 $y_26 $z_31); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_25 $z_31) (64 $y_26 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_32) (64 $y_26 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_33) (64 $y_26 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_34) (64 $y_26 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_25 $z_35) (64 $y_26 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_25 z_36) (64 y_26 z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_37) (64 $y_26 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_38) (64 $y_26 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_25 $z_39) (64 $y_26 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_0) (64 $y_27 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_1) (64 $y_27 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_2) (64 $y_27 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_3) (64 $y_27 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_4) (64 $y_27 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_5) (64 $y_27 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_6) (64 $y_27 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_7) (64 $y_27 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_8) (64 $y_27 $z_9); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_9) (64 $y_27 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_10) (64 $y_27 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_11) (64 $y_27 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_12) (64 $y_27 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_26 $z_13) (64 $y_27 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_26 z_14) (64 y_27 z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_15) (64 $y_27 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_16) (64 $y_27 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_17) (64 $y_27 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_18) (64 $y_27 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_19) (64 $y_27 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_20) (64 $y_27 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_21) (64 $y_27 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_22) (64 $y_27 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_23) (64 $y_27 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_24) (64 $y_27 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_25) (64 $y_27 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_26) (64 $y_27 $z_27); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_27) (64 $y_27 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_28) (64 $y_27 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_29) (64 $y_27 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_30) (64 $y_27 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_26 $z_31) (64 $y_27 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_26 z_32) (64 y_27 z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_33) (64 $y_27 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_34) (64 $y_27 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_35) (64 $y_27 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_36) (64 $y_27 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_37) (64 $y_27 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_26 $z_38) (64 $y_27 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_26 $z_39) (64 $y_27 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_0) (64 $y_28 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_1) (64 $y_28 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_2) (64 $y_28 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_3) (64 $y_28 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_4) (64 $y_28 $z_5); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_5) (64 $y_28 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_6) (64 $y_28 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_7) (64 $y_28 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_8) (64 $y_28 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_27 $z_9) (64 $y_28 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_27 z_10) (64 y_28 z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_11) (64 $y_28 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_12) (64 $y_28 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_13) (64 $y_28 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_14) (64 $y_28 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_15) (64 $y_28 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_16) (64 $y_28 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_17) (64 $y_28 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_18) (64 $y_28 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_19) (64 $y_28 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_20) (64 $y_28 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_21) (64 $y_28 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_22) (64 $y_28 $z_23); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_23) (64 $y_28 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_24) (64 $y_28 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_25) (64 $y_28 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_26) (64 $y_28 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_27 $z_27) (64 $y_28 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_27 z_28) (64 y_28 z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_29) (64 $y_28 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_30) (64 $y_28 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_31) (64 $y_28 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_32) (64 $y_28 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_33) (64 $y_28 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_27 $z_34) (64 $y_28 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_35) (64 $y_28 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_36) (64 $y_28 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_27 z_37) (64 y_28 z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_38) (64 $y_28 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_27 $z_39) (64 $y_28 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_0) (64 $y_29 $z_1); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_1) (64 $y_29 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_2) (64 $y_29 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_3) (64 $y_29 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_4) (64 $y_29 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_28 $z_5) (64 $y_29 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \ y_28 \ z_6) \ (64 \ y_29 \ z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_7) (64 $y_29 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_8) (64 $y_29 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_9) (64 $y_29 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_10) (64 $y_29 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_11) (64 $y_29 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_12) (64 $y_29 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_13) (64 $y_29 $z_14); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_14) (64 $y_29 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_15) (64 $y_29 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_16) (64 $y_29 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_17) (64 $y_29 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_18) (64 $y_29 $z_19); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_19) (64 $y_29 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_20) (64 $y_29 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_21) (64 $y_29 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_22) (64 $y_29 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_28 $z_23) (64 $y_29 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_28 z_24) (64 y_29 z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_25) (64 $y_29 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_26) (64 $y_29 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_27) (64 $y_29 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_28) (64 $y_29 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_29) (64 $y_29 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_30) (64 $y_29 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_31) (64 $y_29 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_32) (64 $y_29 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_28 z_33) (64 y_29 z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_34) (64 $y_29 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_35) (64 $y_29 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_36) (64 $y_29 $z_37); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_37) (64 $y_29 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_28 $z_38) (64 $y_29 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_28 $z_39) (64 $y_29 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_0) (64 $y_30 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_29 $z_1) (64 $y_30 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_29 z_2) (64 y_30 z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_3) (64 $y_30 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_4) (64 $y_30 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_5) (64 $y_30 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_6) (64 $y_30 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_7) (64 $y_30 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_8) (64 $y_30 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_9) (64 $y_30 $z_10); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_10) (64 $y_30 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_29 z_11) (64 y_30 z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_12) (64 $y_30 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_13) (64 $y_30 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_14) (64 $y_30 $z_15); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_15) (64 $y_30 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_16) (64 $y_30 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_17) (64 $y_30 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_18) (64 $y_30 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_29 $z_19) (64 $y_30 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_29 z_20) (64 y_30 z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_21) (64 $y_30 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_22) (64 $y_30 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_23) (64 $y_30 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_24) (64 $y_30 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_25) (64 $y_30 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_26) (64 $y_30 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_27) (64 $y_30 $z_28); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_28) (64 $y_30 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_29 z_29) (64 y_30 z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_30) (64 $y_30 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_31) (64 $y_30 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_32) (64 $y_30 $z_33); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_33) (64 $y_30 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_34) (64 $y_30 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_29 $z_35) (64 $y_30 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_36) (64 $y_30 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_29 $z_37) (64 $y_30 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_29 z_38) (64 y_30 z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_29 $z_39) (64 $y_30 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_0) (64 $y_31 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_1) (64 $y_31 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_2) (64 $y_31 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_3) (64 $y_31 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_4) (64 $y_31 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_5) (64 $y_31 $z_6); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_6) (64 $y_31 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_7) (64 $y_31 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_8) (64 $y_31 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_9) (64 $y_31 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_10) (64 $y_31 $z_11); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_11) (64 $y_31 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_12) (64 $y_31 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_13) (64 $y_31 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y 30 $z 14) (64 $y 31 $z 15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_30 $z_15) (64 $y_31 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_30 z_{16}) (64 y_31 z_{17}); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_17) (64 $y_31 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_18) (64 $y_31 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_19) (64 $y_31 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_20) (64 $y_31 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_21) (64 $y_31 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_22) (64 $y_31 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_23) (64 $y_31 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_24) (64 $y_31 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_25) (64 $y_31 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_26) (64 $y_31 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_27) (64 $y_31 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_28) (64 $y_31 $z_29); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_29) (64 $y_31 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_30) (64 $y_31 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_31) (64 $y_31 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_32) (64 $y_31 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_30 $z_33) (64 $y_31 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_30 z_34) (64 y_31 z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_35) (64 $y_31 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_30 $z_36) (64 $y_31 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_37) (64 $y_31 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_38) (64 $y_31 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_30 $z_39) (64 $y_31 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_0) (64 $y_32 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_1) (64 $y_32 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_2) (64 $y_32 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_31 z_3) (64 y_32 z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_4) (64 $y_32 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_5) (64 $y_32 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_6) (64 $y_32 $z_7); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_7) (64 $y_32 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_8) (64 $y_32 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_9) (64 $y_32 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_10) (64 $y_32 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_31 $z_11) (64 $y_32 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_31 z_{12}) (64 y_32 z_{13}); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_13) (64 $y_32 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_14) (64 $y_32 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_15) (64 $y_32 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_16) (64 $y_32 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_17) (64 $y_32 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_18) (64 $y_32 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_19) (64 $y_32 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_20) (64 $y_32 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_31 z_21) (64 y_32 z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_22) (64 $y_32 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_23) (64 $y_32 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_24) (64 $y_32 $z_25); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_25) (64 $y_32 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_26) (64 $y_32 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_27) (64 $y_32 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_28) (64 $y_32 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_31 $z_29) (64 $y_32 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_31 z_30) (64 y_32 z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_31) (64 $y_32 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_32) (64 $y_32 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_33) (64 $y_32 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_34) (64 $y_32 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_35) (64 $y_32 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_36) (64 $y_32 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_31 $z_37) (64 $y_32 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_31 $z_38) (64 $y_32 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 y_31 z_39) (64 y_32 z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_0) (64 $y_33 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_1) (64 $y_33 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_2) (64 $y_33 $z_3); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_3) (64 $y_33 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_4) (64 $y_33 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_5) (64 $y_33 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_6) (64 $y_33 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_32 $z_7) (64 $y_33 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_32 z_8) (64 y_33 z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_9) (64 $y_33 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_10) (64 $y_33 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_11) (64 $y_33 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_12) (64 $y_33 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_13) (64 $y_33 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_14) (64 $y_33 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_15) (64 $y_33 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_16) (64 $y_33 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_17) (64 $y_33 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_18) (64 $y_33 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_19) (64 $y_33 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_20) (64 $y_33 $z_21); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_21) (64 $y_33 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_22) (64 $y_33 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_23) (64 $y_33 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_24) (64 $y_33 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_32 $z_25) (64 $y_33 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_32 z_26) (64 y_33 z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_27) (64 $y_33 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_28) (64 $y_33 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_29) (64 $y_33 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_30) (64 $y_33 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_31) (64 $y_33 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_32) (64 $y_33 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_33) (64 $y_33 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_34) (64 $y_33 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_32 $z_35) (64 $y_33 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_36) (64 $y_33 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_37) (64 $y_33 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_38) (64 $y_33 $z_39); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_32 $z_39) (64 $y_33 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_0) (64 $y_34 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_1) (64 $y_34 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_2) (64 $y_34 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_33 $z_3) (64 $y_34 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 \$y_33 \$z_4) (64 \$y_34 \$z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_5) (64 $y_34 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_6) (64 $y_34 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_7) (64 $y_34 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_8) (64 $y_34 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_9) (64 $y_34 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_10) (64 $y_34 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_11) (64 $y_34 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_12) (64 $y_34 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_13) (64 $y_34 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_14) (64 $y_34 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_15) (64 $y_34 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_16) (64 $y_34 $z_17); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_17) (64 $y_34 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_18) (64 $y_34 $z_19); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_19) (64 $y_34 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_20) (64 $y_34 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_33 $z_21) (64 $y_34 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_33 z_22) (64 y_34 z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_23) (64 $y_34 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_33 z_24) (64 y_34 z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_25) (64 $y_34 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_26) (64 $y_34 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_27) (64 $y_34 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_28) (64 $y_34 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_29) (64 $y_34 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_30) (64 $y_34 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_31) (64 $y_34 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_32) (64 $y_34 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_33) (64 $y_34 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_34) (64 $y_34 $z_35); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_35) (64 $y_34 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_33 $z_36) (64 $y_34 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_37) (64 $y_34 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_33 $z_38) (64 $y_34 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_33 $z_39) (64 $y_34 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 \$y_34 \$z_0) (64 \$y_35 \$z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_1) (64 $y_35 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_2) (64 $y_35 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 \$y_34 \$z_3) (64 \$y_35 \$z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_4) (64 $y_35 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_5) (64 $y_35 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_6) (64 $y_35 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_7) (64 $y_35 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_8) (64 $y_35 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_9) (64 $y_35 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_10) (64 $y_35 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_11) (64 $y_35 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_12) (64 $y_35 $z_13); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_13) (64 $y_35 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_14) (64 $y_35 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_15) (64 $y_35 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_16) (64 $y_35 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_34 $z_17) (64 $y_35 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_34 z_{18}) (64 y_35 z_{19}); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_19) (64 $y_35 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_20) (64 $y_35 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_21) (64 $y_35 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_22) (64 $y_35 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_23) (64 $y_35 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_24) (64 $y_35 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_25) (64 $y_35 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_26) (64 $y_35 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_27) (64 $y_35 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_28) (64 $y_35 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_29) (64 $y_35 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_30) (64 $y_35 $z_31); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_31) (64 $y_35 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_32) (64 $y_35 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_33) (64 $y_35 $z_34); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_34) (64 $y_35 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_34 $z_35) (64 $y_35 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_34 z_36) (64 y_35 z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_37) (64 $y_35 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_34 $z_38) (64 $y_35 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_34 $z_39) (64 $y_35 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_0) (64 $y_36 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_1) (64 $y_36 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_2) (64 $y_36 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_3) (64 $y_36 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_4) (64 $y_36 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_5) (64 $y_36 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 \$y_35 \$z_6) (64 \$y_36 \$z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_7) (64 $y_36 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_8) (64 $y_36 $z_9); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_9) (64 $y_36 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_10) (64 $y_36 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_11) (64 $y_36 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_12) (64 $y_36 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_35 $z_13) (64 $y_36 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_35 z_14) (64 y_36 z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_15) (64 $y_36 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_16) (64 $y_36 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_17) (64 $y_36 $z_18); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_18) (64 $y_36 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_19) (64 $y_36 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_20) (64 $y_36 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_21) (64 $y_36 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_22) (64 $y_36 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_23) (64 $y_36 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_24) (64 $y_36 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_25) (64 $y_36 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_26) (64 $y_36 $z_27); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_27) (64 $y_36 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_28) (64 $y_36 $z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_29) (64 $y_36 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_30) (64 $y_36 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_35 $z_31) (64 $y_36 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_35 z_32) (64 y_36 z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_33) (64 $y_36 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_34) (64 $y_36 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_35) (64 $y_36 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_36) (64 $y_36 $z_37); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_35 $z_37) (64 $y_36 $z_38); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_38) (64 $y_36 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_35 $z_39) (64 $y_36 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_0) (64 $y_37 $z_1); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_1) (64 $y_37 $z_2); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_2) (64 $y_37 $z_3); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_3) (64 $y_37 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_4) (64 $y_37 $z_5); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_5) (64 $y_37 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_6) (64 $y_37 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_7) (64 $y_37 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_8) (64 $y_37 $z_9); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_36 $z_9) (64 $y_37 $z_10); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_36 z_{10}) (64 y_37 z_{11}); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_11) (64 $y_37 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_12) (64 $y_37 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_13) (64 $y_37 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_14) (64 $y_37 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_15) (64 $y_37 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_16) (64 $y_37 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_17) (64 $y_37 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_18) (64 $y_37 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_19) (64 $y_37 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_20) (64 $y_37 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_21) (64 $y_37 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_22) (64 $y_37 $z_23); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_23) (64 $y_37 $z_24); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_24) (64 $y_37 $z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_25) (64 $y_37 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_26) (64 $y_37 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_36 $z_27) (64 $y_37 $z_28); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_36 z_28) (64 y_37 z_29); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_29) (64 $y_37 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_30) (64 $y_37 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_31) (64 $y_37 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_32) (64 $y_37 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_33) (64 $y_37 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_34) (64 $y_37 $z_35); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_35) (64 $y_37 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_36) (64 $y_37 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_37) (64 $y_37 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_36 $z_38) (64 $y_37 $z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_36 $z_39) (64 $y_37 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_0) (64 $y_38 $z_1); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_1) (64 $y_38 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_2) (64 $y_38 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_3) (64 $y_38 $z_4); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_4) (64 $y_38 $z_5); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_37 $z_5) (64 $y_38 $z_6); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 \$y_37 \$z_6) (64 \$y_38 \$z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_7) (64 $y_38 $z_8); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_8) (64 $y_38 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 \$y_37 \$z_9) (64 \$y_38 \$z_{10}); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_10) (64 $y_38 $z_11); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_11) (64 $y_38 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_12) (64 $y_38 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_13) (64 $y_38 $z_14); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_14) (64 $y_38 $z_15); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_15) (64 $y_38 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_16) (64 $y_38 $z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_17) (64 $y_38 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_18) (64 $y_38 $z_19); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_19) (64 $y_38 $z_20); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_20) (64 $y_38 $z_21); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_21) (64 $y_38 $z_22); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_22) (64 $y_38 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_37 $z_23) (64 $y_38 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_37 z_24) (64 y_38 z_25); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_25) (64 $y_38 $z_26); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_26) (64 $y_38 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_27) (64 $y_38 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_28) (64 $y_38 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_29) (64 $y_38 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_30) (64 $y_38 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_31) (64 $y_38 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_32) (64 $y_38 $z_33); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 y_37 z_33) (64 y_38 z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_34) (64 $y_38 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_35) (64 $y_38 $z_36); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_36) (64 $y_38 $z_37); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_37 $z_37) (64 $y_38 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_38) (64 $y_38 $z_39); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_37 $z_39) (64 $y_38 $z_40); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_0) (64 $y_39 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_38 $z_1) (64 $y_39 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_38 z_2) (64 y_39 z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_3) (64 $y_39 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_4) (64 $y_39 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_5) (64 $y_39 $z_6); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_6) (64 $y_39 $z_7); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_7) (64 $y_39 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_8) (64 $y_39 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_9) (64 $y_39 $z_10); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_10) (64 $y_39 $z_11); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_11) (64 $y_39 $z_12); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_12) (64 $y_39 $z_13); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_13) (64 $y_39 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_14) (64 $y_39 $z_15); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_15) (64 $y_39 $z_16); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_16) (64 $y_39 $z_17); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_17) (64 $y_39 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_18) (64 $y_39 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
```

```
boxToCell { box (-6 $y_38 $z_19) (64 $y_39 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 y_38 z_20) (64 y_39 z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_21) (64 $y_39 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_22) (64 $y_39 $z_23); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_23) (64 $y_39 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_24) (64 $y_39 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_25) (64 $y_39 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_26) (64 $y_39 $z_27); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_27) (64 $y_39 $z_28); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_28) (64 $y_39 $z_29); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_29) (64 $y_39 $z_30); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_30) (64 $y_39 $z_31); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_31) (64 $y_39 $z_32); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_32) (64 $y_39 $z_33); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_33) (64 $y_39 $z_34); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_38 $z_34) (64 $y_39 $z_35); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_35) (64 $y_39 $z_36); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_36) (64 $y_39 $z_37); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_38 $z_37) (64 $y_39 $z_38); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_38 z_38) (64 y_39 z_39); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_38 $z_39) (64 $y_39 $z_40); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_0) (64 $y_40 $z_1); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_1) (64 $y_40 $z_2); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_2) (64 $y_40 $z_3); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_3) (64 $y_40 $z_4); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_4) (64 $y_40 $z_5); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_5) (64 $y_40 $z_6); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_6) (64 $y_40 $z_7); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_7) (64 $y_40 $z_8); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_8) (64 $y_40 $z_9); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_9) (64 $y_40 $z_10); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_10) (64 $y_40 $z_11); fieldValues (
volScalarFieldValue phi alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_11) (64 $y_40 $z_12); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_12) (64 $y_40 $z_13); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_13) (64 $y_40 $z_14); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_14) (64 $y_40 $z_15); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_39 $z_15) (64 $y_40 $z_16); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 y_39 z_16) (64 y_40 z_17); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_17) (64 $y_40 $z_18); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_18) (64 $y_40 $z_19); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_19) (64 $y_40 $z_20); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_20) (64 $y_40 $z_21); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_21) (64 $y_40 $z_22); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_22) (64 $y_40 $z_23); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_23) (64 $y_40 $z_24); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_24) (64 $y_40 $z_25); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_25) (64 $y_40 $z_26); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_26) (64 $y_40 $z_27); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_27) (64 $y_40 $z_28); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_28) (64 $y_40 $z_29); fieldValues (
volScalarFieldValue phi alpha 0.0
volScalarFieldValue phi beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_29) (64 $y_40 $z_30); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_30) (64 $y_40 $z_31); fieldValues (
volScalarFieldValue phi_alpha 1.0
volScalarFieldValue phi_beta 0.0 ); }
boxToCell { box (-6 $y_39 $z_31) (64 $y_40 $z_32); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
boxToCell { box (-6 $y_39 $z_32) (64 $y_40 $z_33); fieldValues (
volScalarFieldValue phi_alpha 0.0
volScalarFieldValue phi_beta 1.0 ); }
```

```
boxToCell { box (-6 $y_39 $z_33) (64 $y_40 $z_34); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 y_39 z_34) (64 y_40 z_35); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_39 $z_35) (64 $y_40 $z_36); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_39 $z_36) (64 $y_40 $z_37); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0 ); }
   boxToCell { box (-6 $y_39 $z_37) (64 $y_40 $z_38); fieldValues (
   volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0 ); }
   boxToCell { box (-6 $y_39 $z_38) (64 $y_40 $z_39); fieldValues (
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi beta 1.0 ); }
   boxToCell { box (-6 $y_39 $z_39) (64 $y_40 $z_40); fieldValues (
   volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0 ); }
// alpha and beta phase region ends
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (64 -6 -6) (166 166 166);
// Box can be larger than domain; in general this avoids edge effects
   fieldValues
// NB: no semicolons at the end of the dictionary entries below!
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 1.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
);
```

2.2.4 Physical properties

The entries of transportProperties dictionary for this case are kept same as section 1.2.4.

2.2.5 Time step control

Similar to section 1.2.5, the startTime and deltaT are specified. The endTime keyword is set to 2000 to observe the growth of secondary dendrites from the primary dendrite, growing normal to the direction of

imposed thermal gradient. The writeInterval can be set to 100. For this case, the entries in the *controlDict* are shown below:

```
/*----*\
| Version: 4.0
www.OpenFOAM.org
  \\/
       M anipulation |
FoamFile
  version 2.0;
  format
         ascii;
  class
         dictionary;
          "system";
  location
          controlDict;
  object
}
application
         eutectic;
startFrom
         startTime;
startTime
         0; // the actual time i.e. runtime.value() or no. of iterations*deltaT
stopAt
    endTime;
endTime
          2000.0; //actual time = total_iterations*deltaT
deltaT
          0.2;
writeControl
         runTime;
writeInterval 100.0;
purgeWrite
          0;
writeFormat
         ascii;
writePrecision 6;
writeCompression off;
timeFormat
          general;
timePrecision 6;
runTimeModifiable true;
// ********************************//
```

2.2.6 Discretisation schemes and solver settings

The fvSchemes and fvSolution dictionary entries are kept same as section 1.2.6 and 1.2.7.

2.3 Running the case

For growth direction parallel to x, the domain is divided equally in the y and z directions to have optimum load balance. Hence, number Of Subdomains = 32 and n = (2, 4, 4) are set.

```
-----*\
                       | OpenFOAM: The Open Source CFD Toolbox
1 \\
        / F ield
  //
       /
          {\tt O} peration
                       | Version: 4.0
   \\ /
          A nd
                       | Web:
                                 www.OpenFOAM.org
    \\/
          M anipulation |
          -
-----*/
FoamFile
             2.0;
   version
   format
             ascii;
   class
             dictionary;
             "mesh decomposition control dictionary";
   note
             "system";
   location
   object
             decomposeParDict;
}
numberOfSubdomains 32;
//- Keep owner and neighbour on same processor for faces in zones:
// preserveFaceZones (heater solid1 solid3);
//method
               scotch;
method
             simple;
simpleCoeffs
{
   n
             (2 \ 4 \ 4);
   delta
             0.001;
```

Similar to section 1.3, the solver for this case is run in parallel using runParallel within Allrun.

2.4 Post-processing

Similar to section 1.4, the results reconstructed to time directories can be viewed by creating and opening the lamellar3D.foam case module using ParaView. The α - β surface area becomes minimized while maintaining equal volume fractions. Further, it establishes the lamellar morphology. The steady-state phase-field profile is shown in Figure 10.

3 3D rod eutectic growth

This case pertains to 3D rod morphology with volume fractions of 70% α and 30% β phase in the plane perpendicular to the growth direction.

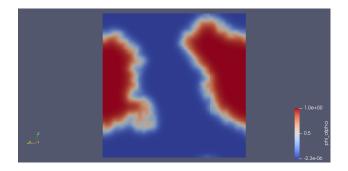


Figure 9: Lamellar morphology at solid-liquid interface at steady-state.

3.1 Problem specification

Solution domain The domain is considered to be three-dimensional in this problem. The cuboid shaped domain consists of three phases with rod shaped β phase parallel to the growth direction embedded within α phase as shown in Figure 11.

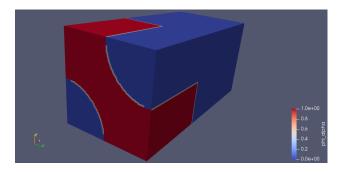


Figure 10: Three-dimensional geometry of the rod morphology.

Governing equations The governing equations used are same as in section 1.1.

Boundary conditions Cyclic boundary condition is specified at the top, bottom, front and back planes, and zero-flux is specified at the remaining planes same as in section 2.1.

Initial conditions The initial conditions are same as in section 2.1.

Physical properties The physical properties are same as in section 1.1.

Solver name eutectic.

Case name rod3D, located in the \$FOAM_RUN/PhaseFieldSolverEutectic directory.

3.2 Pre-processing

To prepare case files and running the case, the user can change to the case directory: cd \$FOAM_RUN/PhaseFieldSolverEutectic/rod3D

3.2.1 Mesh generation

A domain of size $400 \times 184 \times 184$ with dx of 2 is considered. Similar to section 1.2.1, the graded mesh is obtained by merging three blocks with different refinement.

The entries in blockMeshDict located in the system directory for this case are as follows:

```
-----*\
| =======
                    | \\/ Manipulation |
\*-----/
FoamFile
{
   version 2.0;
   format
          ascii;
   class
           dictionary;
   object blockMeshDict;
}
convertToMeters 2;
x_{min} 0;
x max0 120;
x_max1 160;
x_max2 200; //3 blocks in direction of growth
y_min 0;
y_max 92;
z_min 0;
z_max 92;
// should all be integers
lx #calc "$x_max0 - $x_min";
ly #calc "$y_max - $y_min";
lz #calc "$z_max - $z_min"; // should all be integers
vertices
   ($x_min $y_min $z_min)
   ($x_max0 $y_min $z_min)
   ($x_max0 $y_max $z_min)
   ($x_min $y_max $z_min)
   ($x_min $y_min $z_max)
   ($x max0 $y min $z max)
   ($x_max0 $y_max $z_max)
   ($x_min $y_max $z_max)
   ($x max0 $y min $z min)
   ($x_max1 $y_min $z_min)
   ($x_max1 $y_max $z_min)
   ($x_max0 $y_max $z_min)
   ($x_max0 $y_min $z_max)
   ($x_max1 $y_min $z_max)
   ($x_max1 $y_max $z_max)
   ($x_max0 $y_max $z_max)
   ($x_max1 $y_min $z_min)
   ($x_max2 $y_min $z_min)
   ($x max2 $y max $z min)
   ($x_max1 $y_max $z_min)
   ($x_max1 $y_min $z_max)
```

```
($x_max2 $y_min $z_max)
    ($x_max2 $y_max $z_max)
    ($x_max1 $y_max $z_max)
);
blocks
    hex (0 1 2 3 4 5 6 7) ($lx $ly $lz) simpleGrading (1 1 1)
    hex (8 9 10 11 12 13 14 15) (20 46 46) simpleGrading (1 1 1)
    hex (16 17 18 19 20 21 22 23) (10 23 23) simpleGrading (1 1 1)
// for dx = 0.5: simpleGrading (2 2 2) or convertToMeters = 0.5
edges
(
);
//====== FOR ZERO-FLUX BOUNDARY CONDITIONS =======
boundary
    floor
         type cyclic;
        neighbourPatch ceiling;
        faces
        (0 1 5 4)
        (8 9 13 12)
        (16 17 21 20)
        );
    }
    ceiling
    {
       type cyclic;
       neighbourPatch floor;
       faces
        (2376)
        (10 11 15 14)
        (18 19 23 22)
        );
    }
    front
    {
         type cyclic;
        neighbourPatch back;
        faces
        (4567)
        (12 13 14 15)
        (20 21 22 23)
        );
```

```
}
back
{
    type cyclic;
    neighbourPatch front;
    faces
    (0 3 2 1)
    (8 11 10 9)
    (16 19 18 17)
    );
}
sideSolid
    type wall;
    faces
    (0 4 7 3)
    (17 18 22 21)
    );
}
wall_merge0
{
    type wall;
    faces
        (1 2 6 5)
    );
}
wall_merge1
    type wall;
    faces
        (8 12 15 11)
    );
}
wall_merge2
{
    type wall;
    faces
        (9 10 14 13)
    );
}
wall_merge3
{
   type wall;
```

The generated 3D mesh is shown in Figure 12.

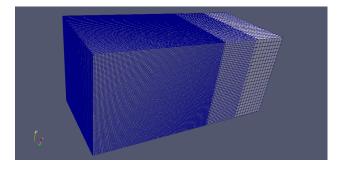


Figure 11: Generated 3D mesh for rod morphology case.

3.2.2 Boundary and initial conditions

Similar to section 2.2.2, the 0 sub-directory contains phi_alpha.orig, phi_beta.orig, phi_liq.orig, and mu.orig.

```
/*----*\
                    | OpenFOAM: The Open Source CFD Toolbox
      / F ield
                     | Version: 4.x
         O peration
   \\ /
         A nd
                     | Web:
                               www.OpenFOAM.org
          M anipulation |
{\tt FoamFile}
   version
            2.0;
   format
            ascii;
   class
            volScalarField;
   location
            "0";
   object
            phi_alpha;
dimensions
            [0 0 0 0 0 0 0];
internalField uniform 0;
```

```
//====== NO-FLUX BOUNDARY CONDITIONS ========//
boundaryField
  floor
    type cyclic;
  }
  ceiling
  {
    type
             cyclic;
  front
    type cyclic;
  }
  back
    type
             cyclic;
  }
  sideSolid
    type zeroGradient;
  }
}
| =======
| \\/ M anipulation |
FoamFile
 version 2.0;
format ascii;
class volScalarField;
  location "0";
  object phi_beta;
dimensions [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS =======//
boundaryField
  floor
```

```
type cyclic;
  }
  ceiling
            cyclic;
   type
  }
  front
  {
           cyclic;
    type
  }
  back
  {
           cyclic;
   type
  sideSolid
  {
         zeroGradient;
   type
}
/*----*\
| \\/ Manipulation |
FoamFile
  version 2.0;
 format ascii;
class volScalarField;
  location "0";
  object phi_liq;
}
dimensions [0 0 0 0 0 0 0];
internalField uniform 0;
//====== NO-FLUX BOUNDARY CONDITIONS ========//
boundaryField
  floor
       cyclic;
    type
  ceiling
    type
         cyclic;
```

```
}
  front
    type cyclic;
  }
  back
        cyclic;
    type
  sideSolid
             zeroGradient;
    type
}
| \\/ M anipulation |
FoamFile
  version 2.0;
  format ascii;
class volScalarField;
location "0";
  object
         mu;
}
dimensions [0 0 0 0 0 0 0];
internalField uniform 1;
//====== NO-FLUX BOUNDARY CONDITIONS ========//
{\tt boundaryField}
{
  floor
    type cyclic;
  }
  ceiling
    type
             cyclic;
  front
         cyclic;
    type
  back
```

```
{
    type cyclic;
}
sideSolid
{
    type zeroGradient;
}
```

3.2.3 Setting initial field

Similar to section 1.2.3, a non-uniform initial condition is specified for the phase parameters. The solid-liquid interface is set at 160 units in the growth direction from the origin. The rod shaped β phase parallel to the growth direction is embedded within α phase.

The setFieldsDict dictionary for this case is shown below:

```
-----*\
| OpenFOAM: The Open Source CFD Toolbox
www.OpenFOAM.org
   \\/
         M anipulation |
\*-----/
FoamFile
           2.0;
   version
   format
            ascii;
   class
            dictionary;
   location
            "system";
   object
            setFieldsDict;
}
defaultFieldValues
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
);
regions
(
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (-6 -6 -6) (160 190 190);
// Box can be larger than domain; in general this avoids edge effects
   fieldValues
// NB: no semicolons at the end of the dictionary entries below!
```

```
volScalarFieldValue phi_alpha 1.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   ):
   }
   cylinderToCell
   p1 (-6 0 0);
   p2 (160 0 0);
   radius 92;
   fieldValues
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
   cylinderToCell
   p1 (-6 184 184);
   p2 (160 184 184);
   radius 92;
   fieldValues
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 1.0
   volScalarFieldValue phi_liq 0.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
   );
   }
   boxToCell
// boxToCell: work on all cells in a rectangular box defined with starting and end point coordinates
   box (160 -6 -6) (406 190 190);
// Box can be larger than domain; in general this avoids edge effects
   fieldValues
// NB: no semicolons at the end of the dictionary entries below!
   volScalarFieldValue phi_alpha 0.0
   volScalarFieldValue phi_beta 0.0
   volScalarFieldValue phi lig 1.0
   volScalarFieldValue T 1.0
   volScalarFieldValue mu 1.0
```

3.2.4 Physical properties

The entries of transportProperties dictionary for this case are kept same as section 1.2.4 except $c_{\alpha}^{eut} = 0.41$ and $c_{\beta}^{eut} = 0.71$ for 70% α and 30% β phase. The entries of transportProperties dictionary are shown below:

```
-----*\
                         | OpenFOAM: The Open Source CFD Toolbox
| \\
        / F ield
           O peration
                         | Version: 2.1.x
   \\ /
           A nd
                         | Web:
                                    www.OpenFOAM.org
    \\/
           M anipulation |
FoamFile
   version
              2.0;
   format
              ascii;
              dictionary;
   class
              "constant";
   location
              transportProperties;
   object
}
           \dim x [0 \ 1 \ 0 \ 0 \ 0 \ 0] \ 1; //Dimension of position
dimx
           dimt [0 0 1 0 0 0 0] 1; //Dimension of time
dimt
          ms_alpha [0 0 0 0 0 0 0] -0.5; //Slope liq-alpha and alpha-liq
ms_alpha
{\tt ms\_beta}
          ms_beta [0 0 0 0 0 0 0] 0.5; //Slope liq-beta and beta-liq
           c_eq_liq [0 0 0 0 0 0 0] 0.5; //Eutectic composition of liquid phase
c_eq_liq
c_eq_alpha c_eq_alpha [0 0 0 0 0 0] 0.41; //Eutectic composition of alpha phase
          c_{eq} beta [0 0 0 0 0 0] 0.71; //Eutectic composition of beta phase
c_eq_beta
           G [0 0 0 0 0 0 0] 5.0e-4; //Thermal gradient
G
           v [0 0 0 0 0 0 0] 0.01; //Velocity
v
          A [0 0 0 0 0 0 0] 1.0;
Α
          D [0 0 0 0 0 0 0] 1.0; //Diffusivity in liquid
D
          T_eut [0 0 0 0 0 0 0] 1.0; //Eutectic temperature
T_eut
           initial [0 0 0 0 0 0] 0.89; //Constant value from temperature profile
initial
           tau [0 0 0 0 0 0 0] 0.288; //Relaxation coefficient
tau
           gamma [0 0 0 0 0 0 0] 1.0; //Interface energy parameter
gamma
           epsilon [0 0 0 0 0 0] 8.0; //Interface width parameter
epsilon
```

3.2.5 Time step control

Similar to section 1.2.5, the startTime and deltaT are specified. The endTime keyword is set to 3000 to observe the growth of secondary dendrites from the primary dendrite, growing normal to the direction of imposed thermal gradient. The writeInterval can be set to 100. For this case, the entries in the *controlDict* are shown below:

```
-----*\ C++ -*----*\
                      1
                    | OpenFOAM: The Open Source CFD Toolbox
 \\ / O peration | Version: 4.0
         A nd
                      | Web:
                               www.OpenFOAM.org
   \\/
         M anipulation |
         -----*/
FoamFile
{
           2.0;
   version
   format
           ascii;
   class
            dictionary;
   location "system";
   object
            controlDict;
application
            eutectic;
startFrom
            startTime;
startTime 0; // the actual time i.e. runtime.value() or no. of iterations*deltaT
stopAt
      endTime;
endTime
           3000.00; //actual time = total_iterations*deltaT
deltaT
           0.1;
writeControl runTime;
writeInterval 100.0;
purgeWrite
            0;
writeFormat
            ascii;
writePrecision 6;
writeCompression off;
timeFormat
            general;
timePrecision
runTimeModifiable true;
// ********************************//
```

3.2.6 Discretisation schemes and solver settings

The fvSchemes and fvSolution dictionary entries are kept same as section 1.2.6 and 1.2.7.

3.3 Running the case

Similar to section 2.3, the domain is divided equally in the y and z directions to have optimum load balance. Hence, number Of Subdomains = 32 and n = (2, 4, 4) are set.

```
/*----*\
           F ield | OpenFOAM: The Open Source CFD Toolbox O peration | Version: 4.0 A nd | Web: www.OpenFOAM.org
\\
       /
   \\ /
    \\/
           M anipulation |
FoamFile
{
   version
              2.0;
   format
              ascii;
   class
              dictionary;
              "mesh decomposition control dictionary";
   note
              "system":
   location
   object
              decomposeParDict;
}
numberOfSubdomains 32;
//- Keep owner and neighbour on same processor for faces in zones:
// preserveFaceZones (heater solid1 solid3);
//method
                scotch;
method
              simple;
simpleCoeffs
{
              (2 4 4);
   n
              0.001:
   delta
}
```

3.4 Post-processing

Similar to section 1.4, the results reconstructed to time directories can be viewed by creating and opening the rod3D.foam case module using ParaView. The α - β phases at the interface display rod morphology while maintaining 70%-30% volume fractions. The phase-field profile of rod morphology at steady-state is shown in Figure 13.

References

[Choudhury and Nestler(2012)] A Choudhury and B Nestler. Grand-potential formulation for multicomponent phase transformations combined with thin-interface asymptotics of the double-obstacle potential. *Physical review. E, Statistical, nonlinear, and soft matter physics.* 85:021602, 2012.

[Folch and Plapp(2005)] R Folch and M Plapp. Quantitative phase-field modeling of two-phase growth. *Phys. Rev. E.* 72:011602, 2005.

[Karma(2001)] A Karma. Phase-field formulation for quantitative modeling of alloy solidification. *Phys. Rev. Lett.* 87:115701, 2001.

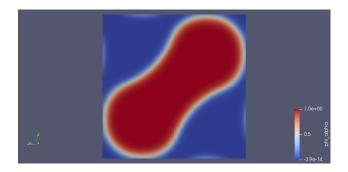


Figure 12: Rod morphology at solid-liquid interface at steady-state.

 $[{\rm Umate}(2021)]~{\rm K}~{\rm Umate}.~{\rm Development~of~framework~for~eutectic~solidification~in~OpenFOAM}.~{\it IISc~Thesis}.$