applyBCs - non-uniform

# Dirichlet

## Direct (wall coincident)

trivial assignment

## Interpolated (wall incoincident)

### Forward

Solving for yields

### Backward

Solving for yields

# Neumann

## Direct (wall coincident) ~O(dh^2)

### Forward differencing

Let

### Backward differencing

## Interpolated (wall incoincident) O(dh)

This BC only requires a Taylor expansion about the boundary and a linear interpolation to the fictive cell.

### Forward differencing

Solving for the ghost point yields

### Backward differencing

Solving for the ghost point yields

## Interpolated (wall incoincident) O(dh) OLD

### Forward differencing

Solving for the ghost point yields

### Backward differencing

Solving for the ghost point yields

# Periodic