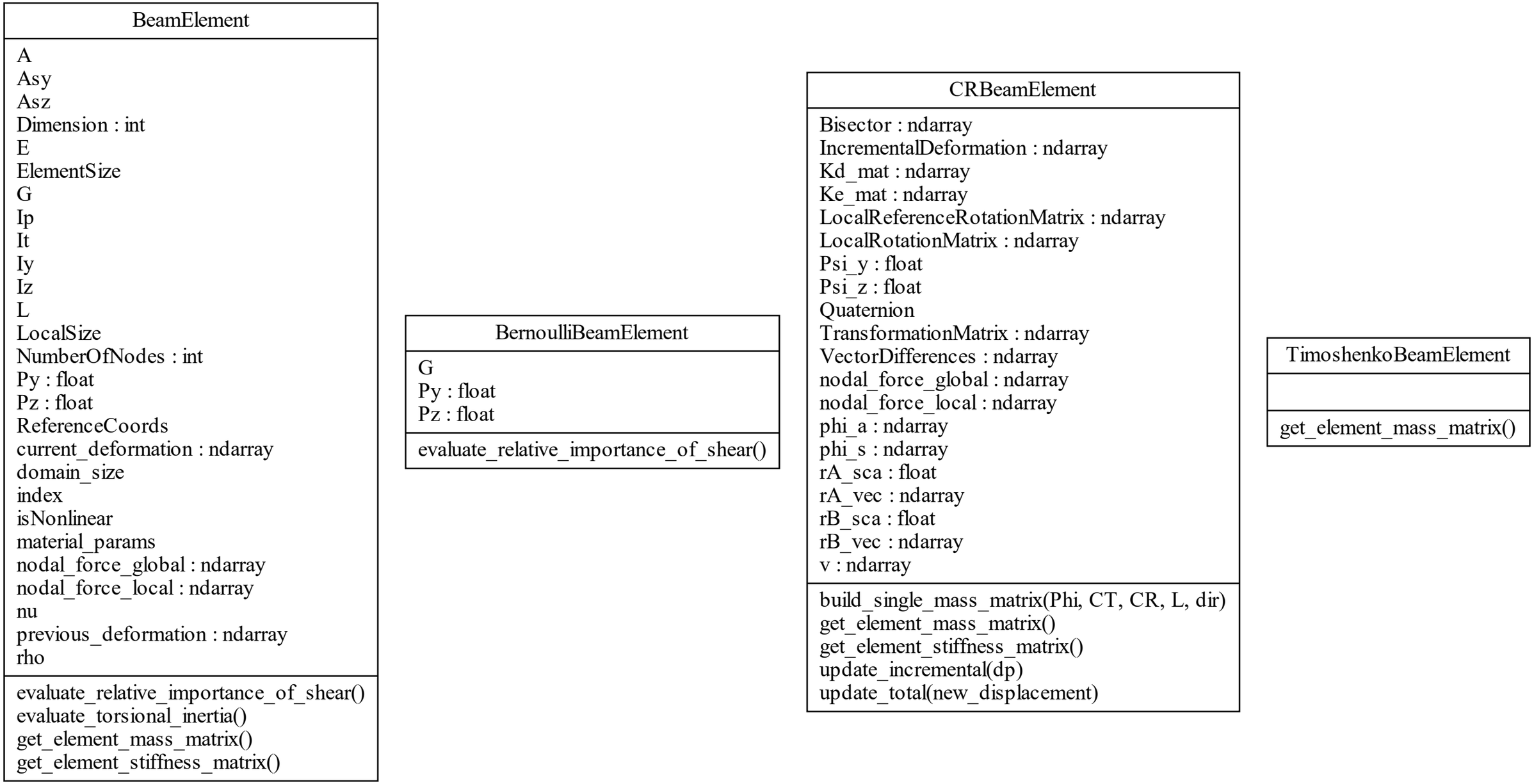
BeamElement
A
Asy
Asz
Dimension : int
E
ElementSize
G
Ip
It
Iy
Iz
L
LocalSize
NumberOfNodes : int
Py : float
Pz : float
ReferenceCoords
current_deformation : ndarray
domain_size
index
isNonlinear
material_params
nodal_force_global : ndarray
nodal_force_local : ndarray
nu
previous_deformation : ndarray
rho
evaluate_relative_importance_of_shear()
evaluate_torsional_inertia()
get_element_mass_matrix()
get_element_stiffness_matrix()
BernoulliBeamElement
G
Py : float
Pz : float
evaluate_relative_importance_of_shear()
CRBeamElement
Bisector : ndarray
IncrementalDeformation : ndarray
Kd_mat : ndarray
Ke_mat : ndarray
LocalReferenceRotationMatrix : ndarray
LocalRotationMatrix : ndarray
Psi_y : float
Psi_z : float
Quaternion
TransformationMatrix : ndarray
VectorDifferences : ndarray
nodal_force_global : ndarray
nodal_force_local : ndarray
phi_a : ndarray
phi_s : ndarray
rA_sca : float
rA_vec : ndarray
rB_sca : float
rB_vec : ndarray
v : ndarray
build_single_mass_matrix(Phi, CT, CR, L, dir)
get_element_mass_matrix()
get_element_stiffness_matrix()
update_incremental(dp)
update_total(new_displacement)
TimoshenkoBeamElement
get_element_mass_matrix()