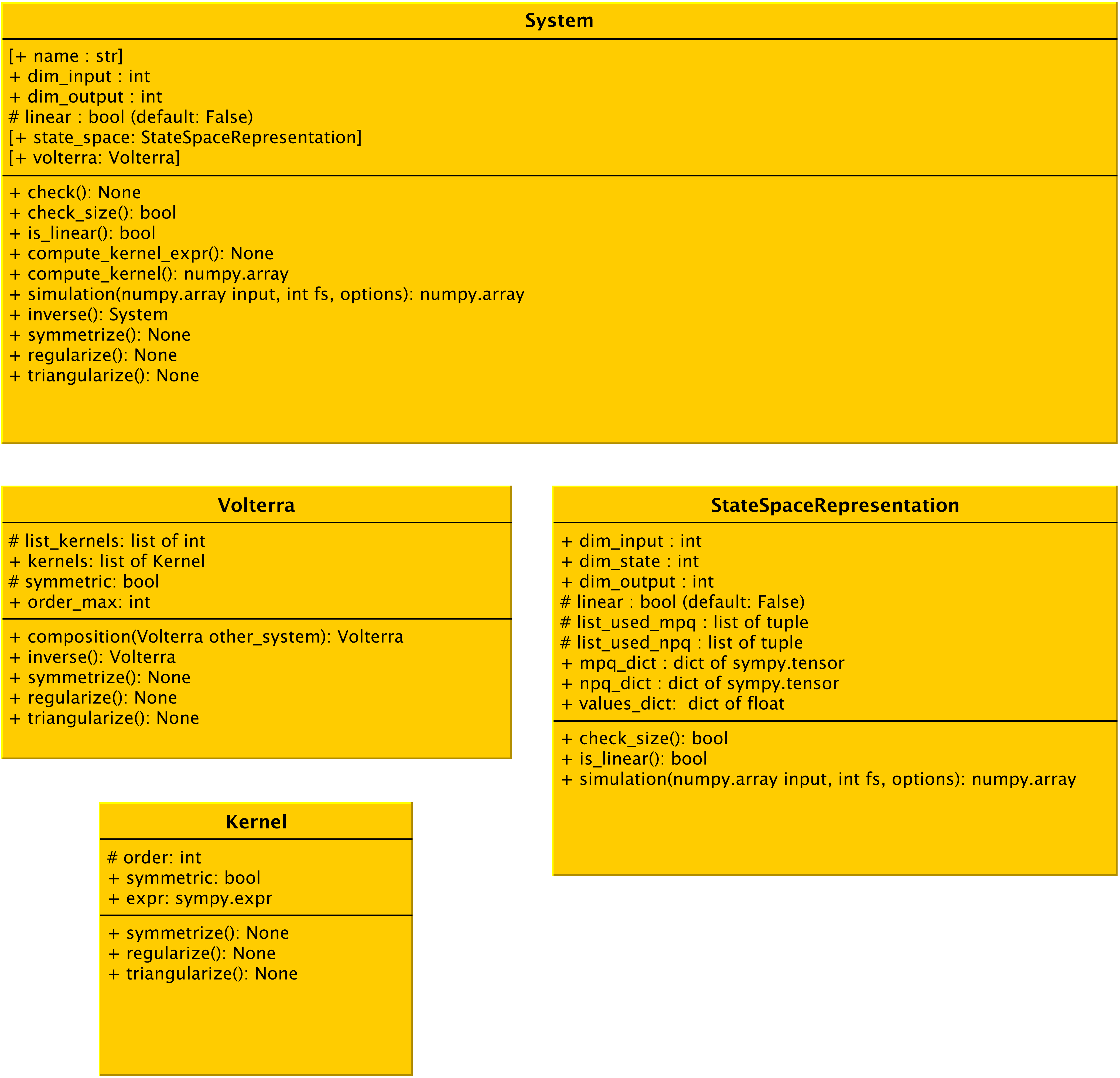

System

[+ name : str]
+ dim_input : int
+ dim_output : int
# linear : bool (default: False)
[+ state_space: StateSpaceRepresentation]
[+ volterra: Volterra]

+ check(): None
+ check_size(): bool
+ is_linear(): bool
+ compute_kernel_expr(): None
+ compute_kernel(): numpy.array
+ simulation(numpy.array input, int fs, options): numpy.array
+ inverse(): System
+ symmetrize(): None
+ regularize(): None
+ triangularize(): None

Volterra

list_kernels: list of int
+ kernels: list of Kernel
# symmetric: bool
+ order_max: int

+ composition(Volterra other_system): Volterra
+ inverse(): Volterra
+ symmetrize(): None
+ regularize(): None
+ triangularize(): None

StateSpaceRepresentation

+ dim_input : int
+ dim_state : int
+ dim_output : int
# linear : bool (default: False)
# list_used_mpq : list of tuple
# list_used_npq : list of tuple
+ mpq_dict : dict of sympy.tensor
+ npq_dict : dict of sympy.tensor
+ values_dict: dict of float

+ check_size(): bool
+ is_linear(): bool
+ simulation(numpy.array input, int fs, options): numpy.array

Kernel

order: int
+ symmetric: bool
+ expr: sympy.expr

+ symmetrize(): None
+ regularize(): None
+ triangularize(): None