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**pressureless
gas
dynamics :
Quadrature
-based
velocity
moment
models**

[Christophe](#)

Chalons (LJLL,
EM2C), Damien
Kah (EM2C,
IFP), Marc
Massot (EM2C)

*(Submitted on 12
Nov 2010)*

Following
the
seminal
work of
F.
Bouchut
on zero
pressure
gas
dynamics
which
has
been
extensively
used for
gas
particle-
flows,
the
present
contribution
investigates
quadrature
-based
velocity