# **Document Title**

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#### Abstract:

Work is work for some, but for some it is play.

**Keywords:** transport sweeps; discrete-ordinate method; radiation transport; massively parallel simulations; discontinuous Galerkin; unstructured mesh

### 1 Introduction

For equations you can use the following shortcuts:

% Un-numbered equation with alignment
\beq
x^2 + y^2 &= R^2 \\
y &= mx + c
\eeq

$$x^2 + y^2 = R^2$$
$$y = mx + c$$

$$x^2 + y^2 = R^2$$

$$y = mx + c \tag{1}$$

$$x^{2} + y^{2} = R^{2}$$

$$y = mx + c$$
(2)
(3)

Vector notations:

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Figure 1: Example figure inclusion

Code highlighting C++:

#### Code Snippet 1: Code example

```
1 // This is a single line comment
2 /*This is a
3 multiline comment.*/
4 int main(int argc, char** argv)
5 {
6   double x=2;
7   std::cout << "hello world";
8   FunctionCall(2);
9   return 0;
10 }</pre>
```

#### Code Snippet 2: Code example smaller

```
1  // This is a single line comment
2  /*This is a
3  multiline comment.*/
4  int main(int argc, char** argv)
5  {
6    double x=2;
7    std::cout << "hello world";
8    FunctionCall(2);
9    return 0;
10 }</pre>
```

## 2 Conclusions and Outlook

This work is obviously the most awesome but maybe someone might want to look at closing the valve on section 4. It might open a portal to another dimension. asd

## 3 Acknowledgments

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## References

[1] Lewis E.E., Miller W.F., Computational Methods of Neutron Transport, JohnWiley & Sons, 1984

# A First appendix

Put "Lazy reader stuff here".